

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P534030

Luminaire Tested: **GALN-SA9C-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534030  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-730-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49198 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

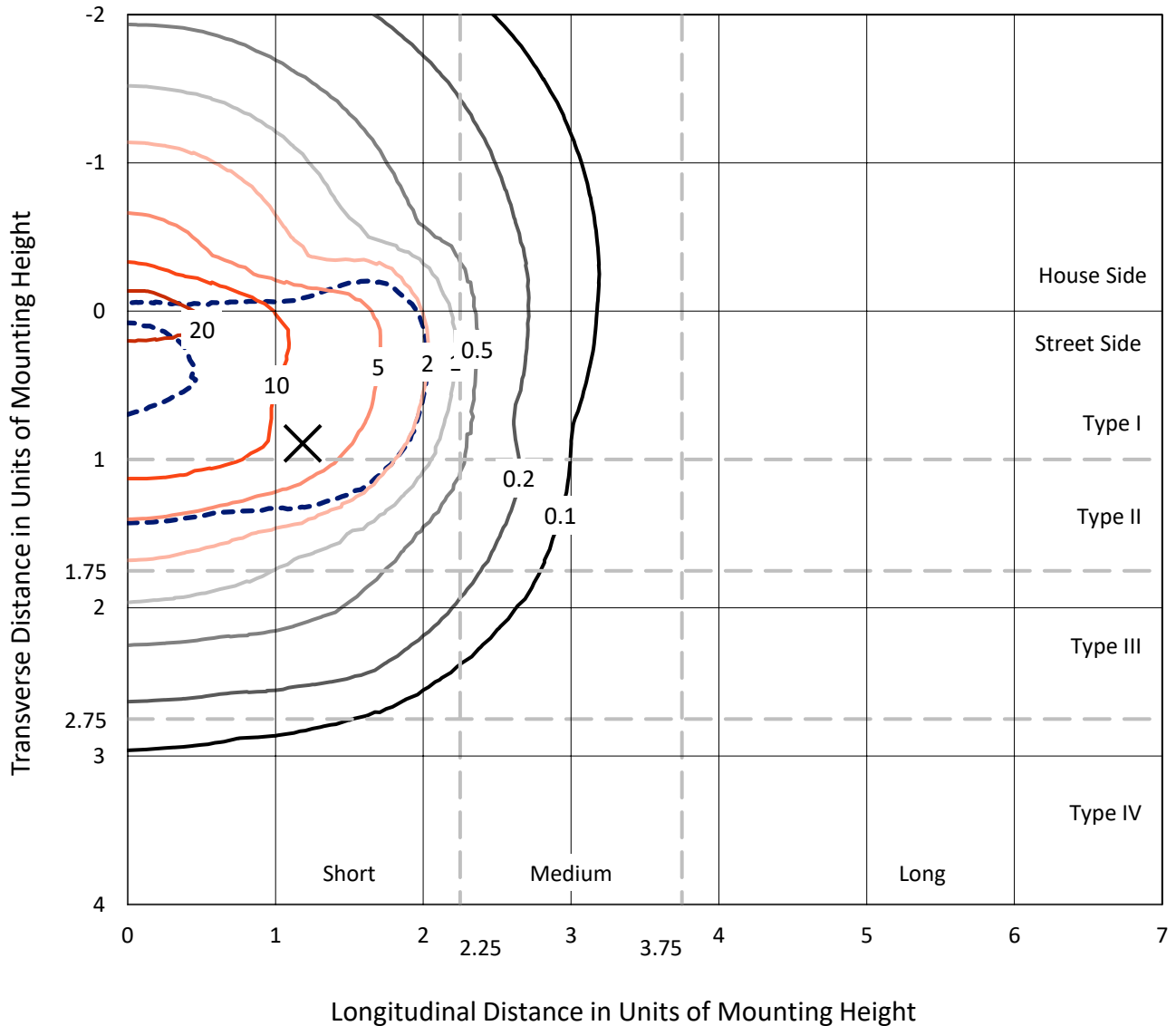




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### Iso-Footcandle Lines of Horizontal Illumination

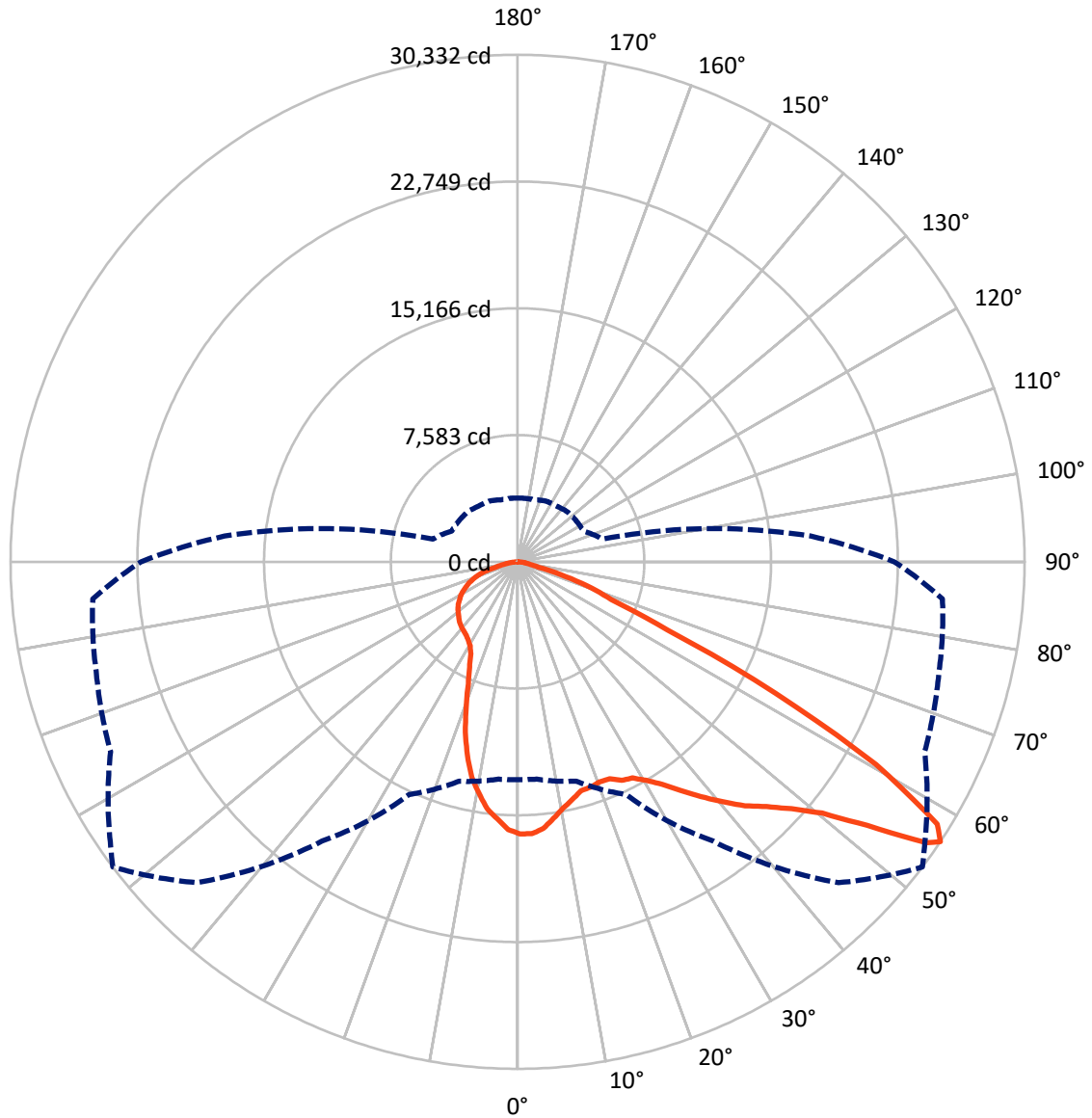
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14357.0	0.0	14357.0
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	34840.9	0.0	34840.9
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	49198.0	0.0	49198.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1440.9	2.9
10°-20°	3598.9	7.3
20°-30°	5306.8	10.8
30°-40°	7582.4	15.4
40°-50°	10436.2	21.2
50°-60°	12332.8	25.1
60°-70°	6572.5	13.4
70°-80°	1667.4	3.4
80°-90°	260.0	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	49198.0	100.0
0°-180°	49198.0	100.0

**Coefficient of Utilization**

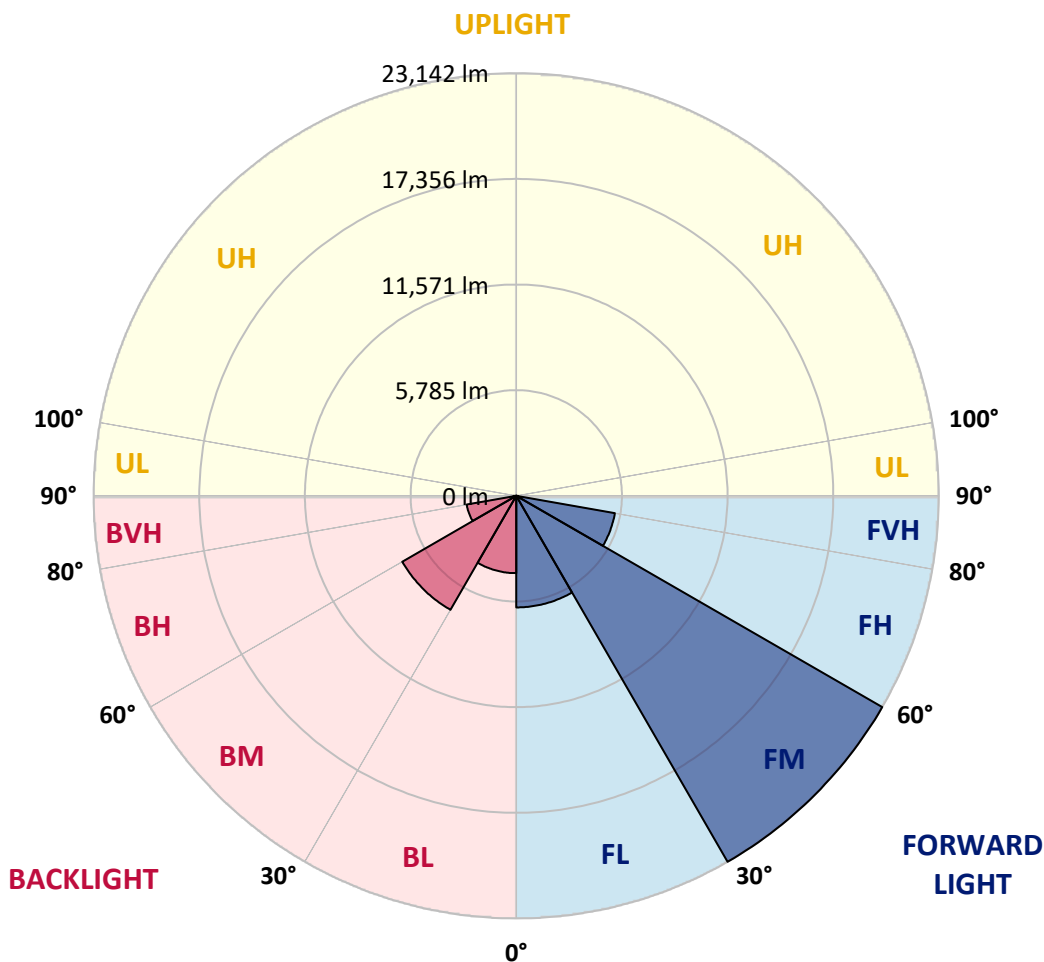


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6112.1	12.4			
FM (30°-60°)	23141.8	47.0			
FH (60°-80°)	5482.5	11.1			G3/7500
FVH (80°-90°)	104.5	0.2			G2/225
BL (0°-30°)	4234.5	8.6	B4/5000		
BM (30°-60°)	7209.6	14.7	B4/8500		
BH (60°-80°)	2757.5	5.6	B4/5000		G4/5000
BVH (80°-90°)	155.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	16276.6	16276.6	16276.6	16276.6	16276.6	16276.6	16276.6	16276.6	16276.6	16276.6	16276.6
2.5°	16074.7	15935.8	16017.9	15986.3	16245.1	16320.8	16282.9	16314.5	16459.7	16390.2	16245.1
5°	15020.7	15216.4	15254.2	15348.9	15500.4	15797.0	16030.5	16093.6	16163.0	16484.9	16453.4
7.5°	14061.4	14193.9	14124.5	14402.2	14730.4	15210.0	15494.0	15544.5	16182.0	16358.7	16491.2
10°	13455.5	13323.0	13638.5	13714.3	14086.6	14635.7	14976.5	15184.8	15765.4	16466.0	16548.0
12.5°	12893.8	12849.6	13039.0	13253.6	13670.1	14238.1	14585.2	14667.3	15563.5	16301.9	16686.9
15°	12477.3	12426.8	12616.1	12773.9	13259.9	13764.8	14206.6	14440.1	15342.6	16207.2	16567.0
17.5°	12149.1	12142.8	12250.1	12534.1	13032.7	13455.5	14168.7	14181.3	15229.0	16352.4	16667.9
20°	12130.2	12123.9	12142.8	12458.3	12912.8	13430.3	14048.8	14162.4	15229.0	16251.4	16674.2
22.5°	12287.9	12187.0	12300.6	12502.5	12830.7	13474.5	14093.0	14345.4	15595.0	16750.0	16958.2
25°	12540.4	12565.6	12628.8	12698.2	12887.5	13575.4	14484.3	14692.5	16024.2	17179.1	17349.5
27.5°	13001.1	12988.5	13013.7	13051.6	13215.7	13670.1	14642.0	15178.5	16920.4	17942.8	17772.4
30°	13676.4	13632.2	13733.2	13865.8	13714.3	13973.0	15165.9	15569.8	17753.5	18712.8	18245.7
32.5°	14288.6	14452.7	14642.0	14698.8	14515.8	14566.3	15860.1	16270.3	18447.7	19659.5	18826.4
35°	15052.3	15184.8	15437.2	15614.0	15582.4	15430.9	16806.8	17349.5	19451.2	20353.7	19438.6
37.5°	15797.0	15954.8	16371.3	16895.1	16604.8	16535.4	17816.6	18264.7	19760.4	20726.0	19886.7
40°	16996.1	16989.8	17709.3	17980.7	18239.4	18119.5	18864.2	19015.7	19924.5	20644.0	19899.3
42.5°	18403.5	18315.2	19047.3	19470.1	19804.6	19817.2	19956.1	19905.6	20000.3	20227.5	19766.7
45°	19741.5	19930.8	20669.2	21426.6	21761.1	21799.0	20877.5	20782.8	20132.8	20107.5	19514.3
47.5°	21376.1	21420.3	22026.2	23023.3	23799.6	23534.5	22070.3	21862.1	20713.4	20909.1	19937.1
50°	21470.8	21799.0	22341.7	23515.6	25901.2	25831.8	23616.6	23225.3	21647.5	22045.1	21117.3
52.5°	19489.0	19413.3	20057.1	21975.7	25743.5	28116.5	26178.9	25244.9	23654.5	23351.5	23029.6
55°	14850.3	15027.0	15595.0	17532.6	22354.3	28148.0	29669.0	28905.4	25800.3	25282.7	24910.4
56°	13026.4	13051.6	13588.1	15355.2	20397.9	27144.6	30331.7	29713.2	26866.9	26078.0	25510.0
57.5°	10798.5	10653.3	10931.0	11896.7	17217.0	25024.0	29605.9	30211.8	28116.5	26936.3	26147.4
60°	8501.2	8469.7	8356.1	8532.8	10880.5	18851.6	24645.3	26008.5	27990.3	26128.5	25042.9
62.5°	6942.3	6784.6	7011.8	7264.2	7560.8	11694.7	17318.0	18119.5	22221.8	20858.6	18813.7
65°	5383.5	5307.7	5591.7	6412.2	6588.9	7428.3	9864.4	10482.9	13121.0	12887.5	11347.6
67.5°	3704.7	3717.3	3963.4	5213.1	6109.3	6033.5	6039.8	6361.7	6847.7	5086.8	4430.5
70°	2347.8	2341.5	2474.0	3357.6	4916.4	4966.9	4714.5	4619.8	4380.0	2650.7	2808.5
72.5°	1508.4	1464.2	1533.6	1855.5	2543.4	2941.0	3029.4	3086.2	2537.1	2082.7	2259.4
75°	852.0	807.8	782.6	864.6	1003.5	1161.3	1274.9	1312.7	1470.5	1577.8	1672.5
77.5°	258.8	233.5	284.0	378.7	498.6	669.0	814.1	839.4	990.9	1117.1	1211.8
80°	113.6	126.2	176.7	252.4	353.4	473.3	574.3	612.2	713.2	807.8	833.1
82.5°	69.4	75.7	119.9	170.4	246.1	334.5	410.2	422.9	523.8	599.6	618.5
85°	25.2	31.6	63.1	101.0	157.8	214.6	214.6	233.5	214.6	214.6	233.5
87.5°	0.0	0.0	6.3	12.6	12.6	18.9	25.2	25.2	31.6	37.9	44.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16276.6	16276.6	16276.6	16276.6	16276.6	16276.6	16276.6	16276.6	16276.6	16276.6	16276.6
2.5°	16320.8	16289.3	16238.8	16055.7	16036.8	15980.0	15664.4	15614.0	15664.4	15513.0	15525.6
5°	16289.3	16383.9	16005.3	15822.2	15481.4	15235.3	14951.3	14806.1	14547.4	14383.3	14566.3
7.5°	16428.1	16390.2	15916.9	15519.3	15008.1	14383.3	13884.7	13600.7	13146.3	13020.0	13114.7
10°	16377.6	16175.7	15620.3	15096.4	14130.8	13581.7	12773.9	11991.3	11562.2	11341.3	11309.7
12.5°	16308.2	16251.4	15323.6	14421.1	13405.0	12250.1	11114.1	10375.6	9675.1	9372.2	9416.3
15°	16390.2	15910.6	14768.3	13625.9	12275.3	10760.6	9536.3	8583.3	8097.3	7901.6	7901.6
17.5°	16352.4	15746.5	14503.2	12736.0	11025.7	9233.3	7889.0	7314.7	7112.7	7112.7	7169.5
20°	16371.3	15853.8	13966.7	11846.2	9548.9	7775.4	6797.2	6588.9	6677.3	6708.8	6740.4
22.5°	16478.6	15500.4	13442.9	10867.9	8179.3	6652.0	6172.4	6178.7	6336.5	6506.9	6475.3
25°	16611.1	15361.5	12805.5	9896.0	7131.7	6103.0	5951.5	5932.5	6052.5	6140.8	6153.4
27.5°	16497.5	15121.7	12155.4	8684.2	6273.4	5736.9	5705.3	5718.0	5755.8	5932.5	5875.7
30°	16869.9	15191.1	11341.3	7668.1	5800.0	5617.0	5579.1	5560.2	5617.0	5667.5	5623.3
32.5°	17330.6	14945.0	10735.4	6689.9	5566.5	5528.6	5452.9	5427.6	5459.2	5408.7	5434.0
35°	17532.6	14900.8	9946.5	5989.3	5383.5	5351.9	5307.7	5301.4	5307.7	5263.6	5225.7
37.5°	17646.2	15109.1	9044.0	5667.5	5269.9	5301.4	5200.4	5187.8	5074.2	5099.5	5118.4
40°	17841.8	14787.2	8311.9	5358.2	5200.4	5137.3	5049.0	5030.0	4954.3	4910.1	4954.3
42.5°	17557.8	14692.5	7592.4	5225.7	5099.5	5030.0	4966.9	4859.6	4834.4	4796.5	4771.3
45°	17330.6	14149.8	6948.7	5061.6	4979.6	4941.7	4821.8	4708.2	4613.5	4651.4	4594.6
47.5°	17501.0	13960.4	6311.2	4922.8	4815.5	4771.3	4651.4	4563.0	4468.3	4424.2	4411.5
50°	18182.6	14313.8	5774.8	4821.8	4676.6	4651.4	4493.6	4392.6	4304.3	4272.7	4285.3
52.5°	19810.9	15279.5	5408.7	4613.5	4544.1	4430.5	4342.1	4215.9	4159.1	4058.1	4121.2
55°	21874.7	16851.0	5314.0	4417.9	4380.0	4279.0	4159.1	4064.4	3957.1	3875.1	3856.2
56°	22537.4	17602.0	5238.3	4342.1	4279.0	4222.2	4064.4	4007.6	3837.2	3818.3	3805.7
57.5°	23073.8	18264.7	5250.9	4197.0	4133.8	4083.4	3988.7	3849.8	3736.2	3666.8	3698.4
60°	21862.1	17097.1	5011.1	3976.1	3963.4	3868.8	3736.2	3673.1	3534.3	3452.2	3433.3
62.5°	16251.4	11606.3	4064.4	3692.1	3685.8	3584.8	3433.3	3363.9	3338.6	3225.0	3225.0
65°	9359.5	7276.8	3515.3	3458.5	3408.1	3307.1	3155.6	3098.8	3035.7	2997.8	2966.3
67.5°	3995.0	3774.1	3193.5	3187.2	3130.4	3004.1	2852.7	2764.3	2682.3	2606.5	2644.4
70°	2896.9	2941.0	2884.2	2852.7	2783.2	2625.5	2492.9	2385.6	2259.4	2208.9	2246.8
72.5°	2297.3	2392.0	2474.0	2480.3	2398.3	2215.2	2070.1	1924.9	1786.1	1716.7	1748.2
75°	1741.9	1805.0	1887.1	1906.0	1786.1	1659.9	1521.0	1369.5	1262.2	1180.2	1192.8
77.5°	1255.9	1243.3	1319.0	1306.4	1249.6	1161.3	1035.0	896.2	776.3	700.5	706.9
80°	858.3	877.3	921.4	915.1	845.7	788.9	694.2	580.6	492.3	429.2	416.5
82.5°	599.6	631.1	669.0	637.4	580.6	523.8	454.4	372.4	302.9	252.4	239.8
85°	214.6	246.1	284.0	302.9	321.9	309.2	258.8	208.3	151.5	126.2	119.9
87.5°	44.2	50.5	56.8	56.8	56.8	50.5	44.2	44.2	37.9	18.9	18.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)