

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: P531452

Luminaire Tested: **GALN-SA6D-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531452  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-730-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37698 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

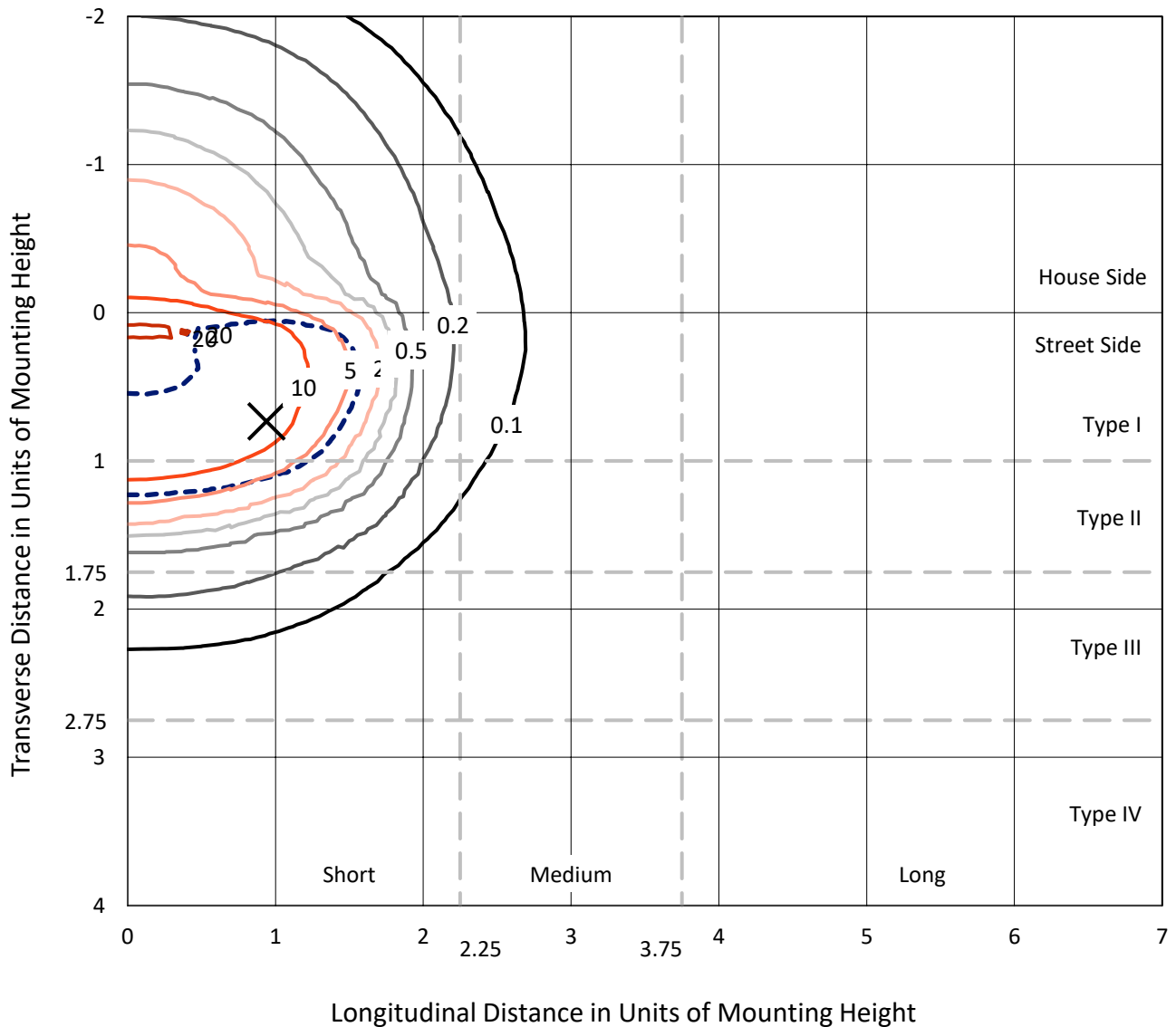
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

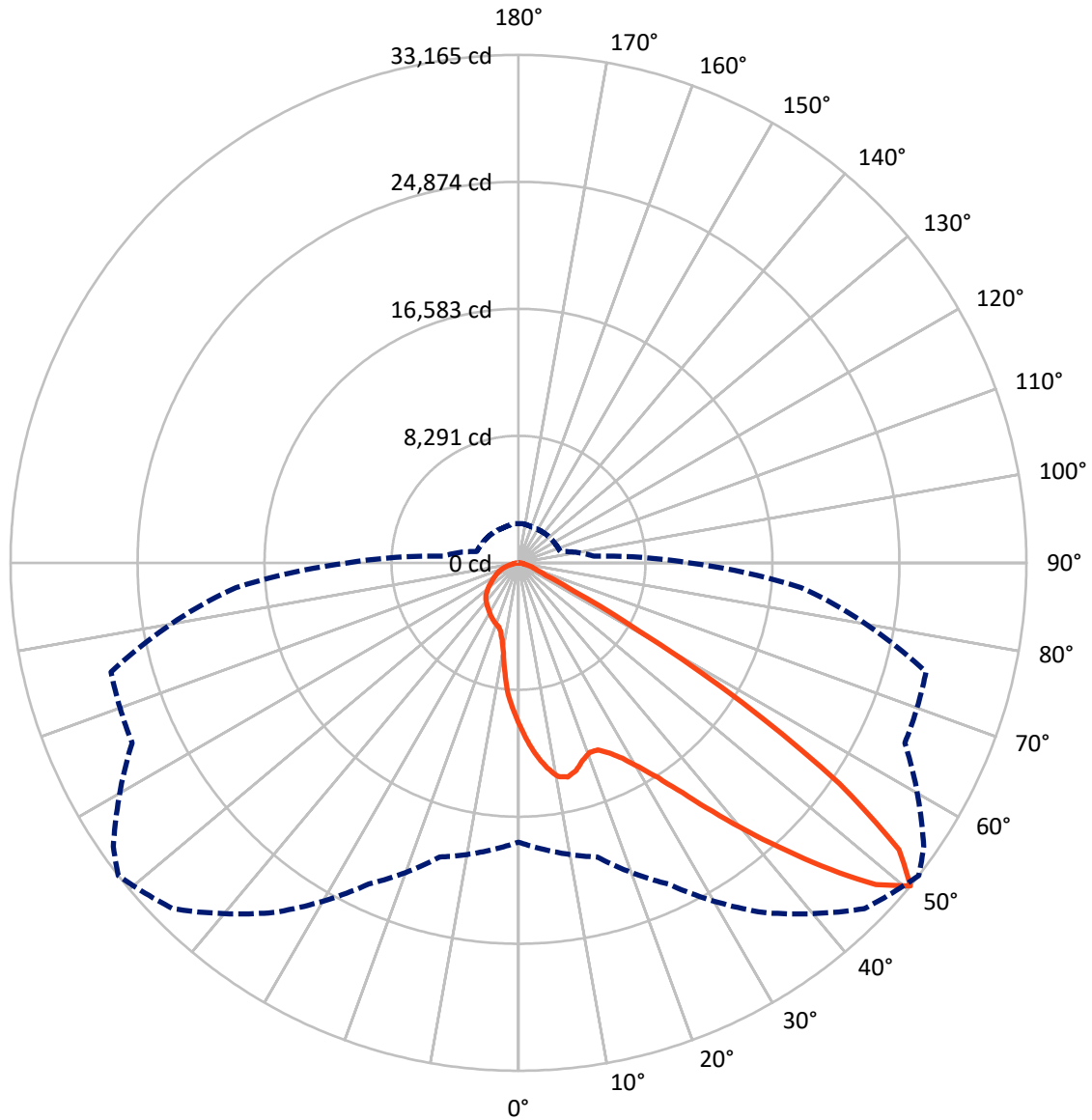
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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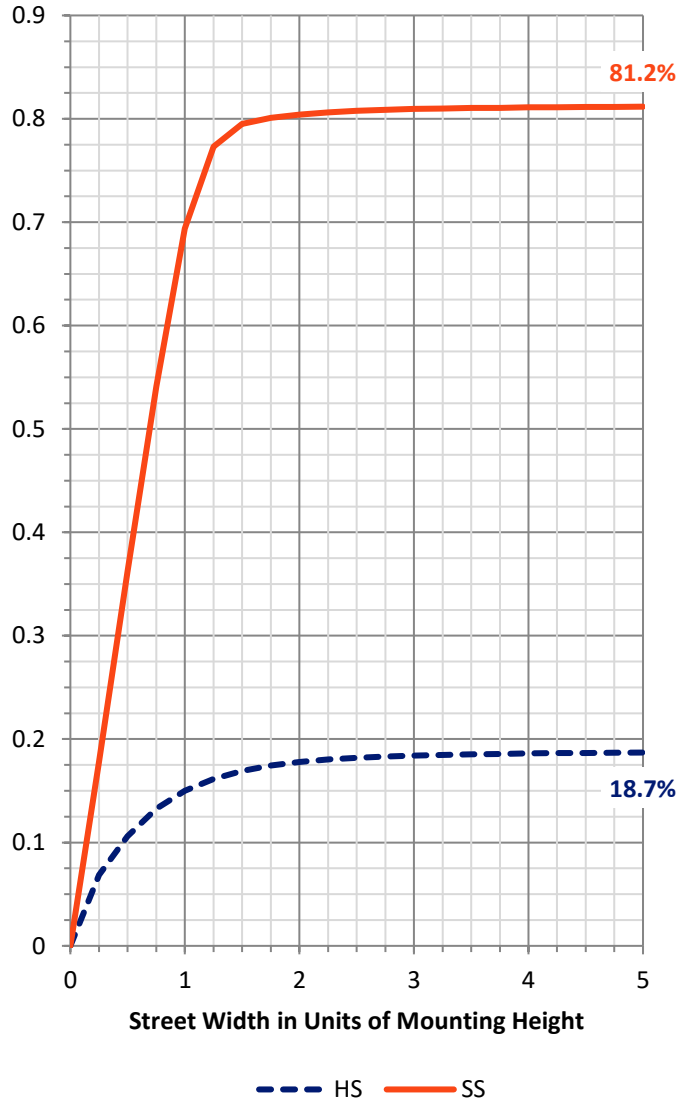
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7086.3	0.0	7086.3
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	30611.7	0.0	30611.7
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	37698.0	0.0	37698.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	979.4	2.6
10°-20°	2625.1	7.0
20°-30°	4421.9	11.7
30°-40°	7420.4	19.7
40°-50°	11351.3	30.1
50°-60°	8276.0	22.0
60°-70°	1841.8	4.9
70°-80°	664.3	1.8
80°-90°	117.6	0.3
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°	37698.0	100.0
0°-180°	37698.0	100.0

**Coefficient of Utilization**



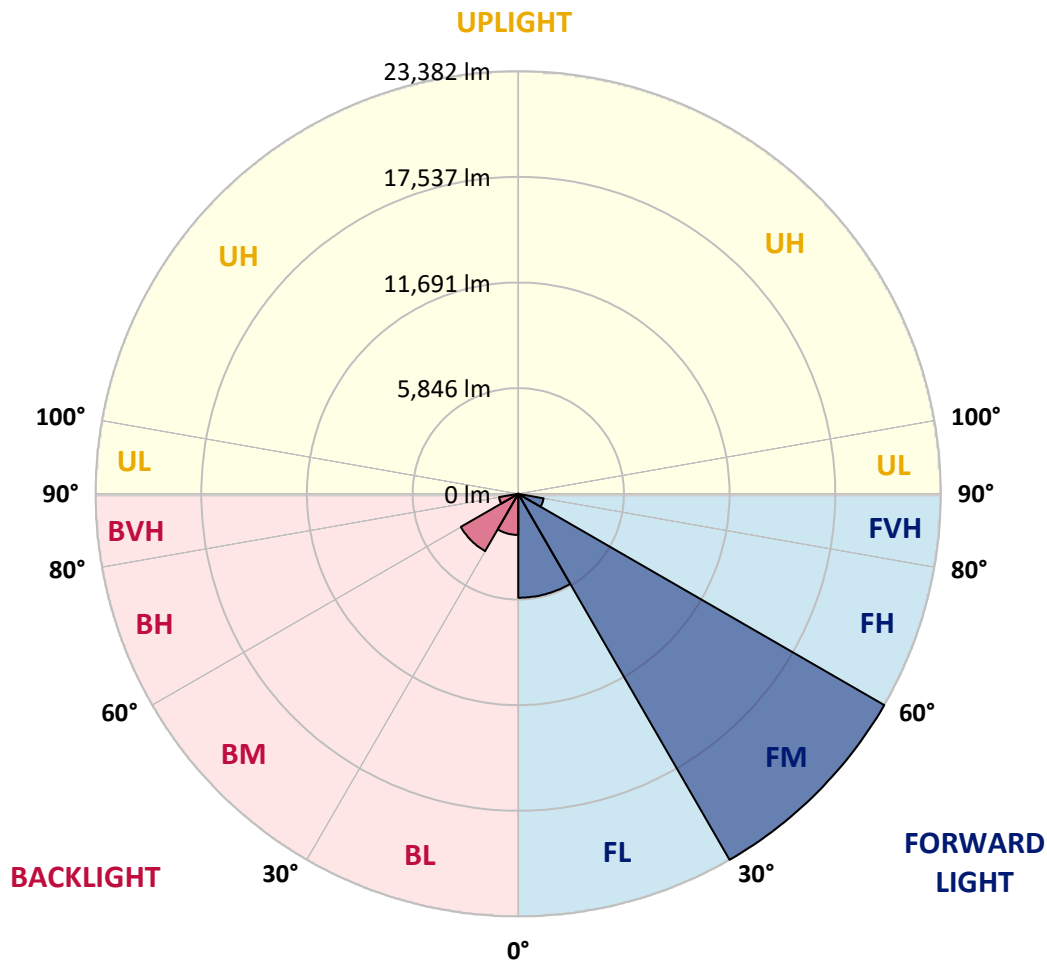
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5750.2	15.3			
FM (30°-60°)	23382.2	62.0			
FH (60°-80°)	1426.5	3.8			G1/1800
FVH (80°-90°)	52.7	0.1			G1/100
BL (0°-30°)	2276.3	6.0	B3/2500		
BM (30°-60°)	3665.5	9.7	B3/5000		
BH (60°-80°)	1079.6	2.9	B3/2500		G3/2500
BVH (80°-90°)	64.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4
2.5°	12511.9	12271.1	12298.3	12125.7	11939.4	11884.9	11694.1	11512.4	11376.1	11085.3	10817.3
5°	13674.9	13602.2	13493.2	13356.9	13216.0	12870.8	12675.4	12448.2	11948.5	11498.7	11053.5
7.5°	13843.0	13829.4	13888.4	13888.4	13938.4	13806.7	13529.5	13370.5	12839.0	12107.5	11280.7
10°	12661.8	12702.7	12988.9	13361.4	13879.3	14238.3	14192.8	14151.9	13570.4	12570.9	11548.7
12.5°	11721.3	11630.5	11798.6	12116.6	12893.5	13761.2	14347.3	14351.8	14201.9	13311.4	11744.1
15°	11189.8	11253.4	11298.8	11448.8	12034.8	13038.9	14070.2	14374.5	15033.3	13833.9	12053.0
17.5°	11530.5	11317.0	11307.9	11344.3	11644.1	12398.3	13556.8	14079.2	15487.6	14506.3	12434.6
20°	11975.8	11971.2	11844.0	11798.6	11794.0	12466.4	13220.6	13929.3	15728.4	15378.6	12820.8
22.5°	12757.2	12757.2	12548.2	12448.2	12234.7	12784.4	13266.0	13747.6	16128.2	15978.3	13007.1
25°	14065.6	13852.1	13493.2	13247.8	13125.2	13320.5	13747.6	14179.2	16478.0	16614.3	13393.2
27.5°	15274.1	14937.9	14760.7	14338.2	14174.6	14061.1	14451.8	14887.9	16886.9	17604.7	13602.2
30°	16646.1	16587.1	16269.0	15723.9	15319.5	15110.5	15469.4	15901.0	17636.5	18617.9	14083.8
32.5°	19099.4	18563.3	18131.7	17463.9	16805.1	16359.9	16714.3	17000.5	18881.4	19676.4	14610.8
35°	21748.1	21575.4	20830.4	19626.4	18617.9	18218.1	18427.0	18640.6	20330.6	21293.8	15496.7
37.5°	24351.3	24115.1	23501.7	22488.6	21262.0	20448.7	20598.7	20848.5	21957.1	23474.5	16578.0
40°	26223.1	25932.3	25623.4	25473.5	24255.9	23142.8	23056.5	23120.1	24156.0	25518.9	17777.4
42.5°	26359.4	26718.3	26813.7	27417.9	27131.7	26218.6	25687.0	25700.6	26254.9	27540.6	18990.4
45°	26073.2	25741.5	26445.7	28094.9	29039.9	29466.9	28571.9	28458.3	27554.2	28712.7	19594.6
47.5°	23070.1	23161.0	24351.3	26959.1	29689.5	31597.6	31388.7	31011.6	28249.3	28671.9	19499.2
50°	18236.2	18785.9	19889.9	23138.3	27872.3	31933.8	33165.0	32292.8	27835.9	27545.2	18527.0
52.5°	12143.9	12371.0	13097.9	17291.3	22411.4	28544.6	31120.6	31320.5	27454.3	26068.6	17295.8
55°	5406.4	5388.2	6410.4	9031.8	14061.1	21720.8	25428.0	26645.6	25986.9	24564.8	16096.4
57.5°	2289.8	2367.0	2785.0	3902.6	6914.7	13107.0	17227.6	18295.3	19985.3	20171.6	12348.3
60°	1549.2	1558.3	1671.9	1953.6	2894.0	6156.0	9036.3	10317.5	11526.0	11444.2	6551.2
62.5°	1217.6	1249.4	1335.7	1449.3	1717.3	2794.0	4043.4	4756.7	4833.9	4066.1	2485.1
65°	1040.4	1044.9	1131.2	1226.7	1344.8	1626.4	1949.0	1985.4	2008.1	1935.4	1826.3
67.5°	858.7	867.7	935.9	1044.9	1154.0	1244.8	1335.7	1381.1	1485.6	1690.1	1662.8
70°	681.5	695.1	754.2	845.0	945.0	999.5	1113.1	1154.0	1249.4	1408.4	1472.0
72.5°	517.9	522.5	572.4	636.0	726.9	781.4	876.8	922.3	985.9	1122.2	1181.2
75°	372.5	386.2	422.5	454.3	467.9	504.3	595.2	645.1	736.0	795.1	799.6
77.5°	195.4	204.4	213.5	213.5	259.0	327.1	386.2	413.4	477.0	522.5	499.7
80°	77.2	81.8	104.5	140.8	181.7	236.2	277.1	290.8	345.3	372.5	386.2
82.5°	45.4	50.0	68.1	99.9	131.8	168.1	199.9	213.5	249.9	281.7	290.8
85°	22.7	27.3	40.9	63.6	86.3	104.5	99.9	95.4	95.4	90.9	95.4
87.5°	9.1	9.1	13.6	13.6	13.6	18.2	22.7	22.7	22.7	27.3	27.3
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°	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4
2.5°	10640.1	10458.3	10290.2	9981.3	9645.1	9549.7	9159.0	9018.2	8918.2	8800.1	8763.7
5°	10694.6	10453.8	9913.2	9290.8	8795.5	8159.5	7741.5	7291.8	6964.7	6882.9	6860.2
7.5°	10808.2	10394.7	9463.4	8523.0	7509.8	6646.6	5987.9	5633.5	5320.0	5301.9	5270.1
10°	10935.4	10217.6	8972.7	7496.2	6201.4	5401.8	5006.6	4852.1	4774.9	4756.7	4747.6
12.5°	11039.9	10181.2	8423.0	6496.7	5274.6	4793.0	4674.9	4661.3	4693.1	4702.2	4720.3
15°	11085.3	10035.8	7759.7	5601.7	4697.6	4520.4	4570.4	4624.9	4647.6	4706.7	4661.3
17.5°	11171.6	9849.6	6941.9	4893.0	4375.1	4406.9	4493.2	4556.8	4593.1	4634.0	4575.0
20°	11217.1	9681.5	6174.1	4470.5	4261.5	4320.5	4438.7	4488.6	4534.1	4552.2	4484.1
22.5°	11176.2	9336.2	5497.2	4129.7	4152.4	4229.7	4334.2	4388.7	4361.4	4288.7	4247.9
25°	11067.1	8850.1	4793.0	3911.7	3998.0	4134.3	4216.0	4175.2	4125.2	4084.3	4070.7
27.5°	11062.6	8254.9	4284.2	3711.8	3866.2	4052.5	4025.2	3988.9	4011.6	3979.8	3943.5
30°	11085.3	7677.9	3866.2	3598.2	3770.8	3861.7	3893.5	3857.1	3884.4	3825.3	3843.5
32.5°	10967.2	7114.6	3593.6	3466.4	3657.2	3652.7	3757.2	3784.4	3720.8	3598.2	3616.4
35°	11017.2	6660.3	3361.9	3407.4	3530.0	3530.0	3611.8	3580.0	3411.9	3339.2	3357.4
37.5°	11362.4	6215.0	3248.4	3325.6	3407.4	3443.7	3416.5	3280.2	3239.3	3239.3	3248.4
40°	11689.5	5833.4	3180.2	3307.4	3293.8	3316.5	3116.6	3130.2	3130.2	3134.8	3112.1
42.5°	11980.3	5574.5	3125.7	3198.4	3221.1	3103.0	2980.3	2966.7	2998.5	2993.9	2975.8
45°	12084.8	5360.9	3048.5	3075.7	3093.9	2898.5	2839.5	2812.2	2848.6	2862.2	2880.4
47.5°	11685.0	5183.7	2962.1	2907.6	2871.3	2744.1	2666.8	2616.9	2662.3	2739.5	2757.7
50°	11171.6	4952.0	2825.8	2721.4	2644.1	2589.6	2535.1	2485.1	2516.9	2571.4	2557.8
52.5°	10412.9	4588.6	2653.2	2544.2	2412.4	2426.0	2376.1	2348.8	2367.0	2367.0	2353.4
55°	9331.6	3770.8	2362.4	2285.2	2176.2	2212.5	2221.6	2185.3	2148.9	2180.7	2153.5
57.5°	6369.5	2662.3	2108.0	2108.0	1999.0	2049.0	2044.4	1958.1	1871.8	1880.9	1862.7
60°	3684.5	2121.7	1944.5	1926.3	1812.7	1853.6	1862.7	1803.6	1671.9	1681.0	1662.8
62.5°	2094.4	1812.7	1699.1	1671.9	1649.2	1685.5	1685.5	1608.3	1494.7	1503.8	1485.6
65°	1780.9	1681.0	1517.4	1512.9	1503.8	1512.9	1476.5	1394.7	1294.8	1253.9	1258.5
67.5°	1617.4	1553.8	1394.7	1353.9	1326.6	1322.1	1253.9	1176.7	1131.2	1094.9	1090.4
70°	1417.5	1367.5	1249.4	1194.8	1167.6	1104.0	1035.8	985.9	922.3	904.1	922.3
72.5°	1122.2	1117.6	1072.2	1013.1	954.1	904.1	845.0	776.9	717.8	704.2	672.4
75°	776.9	786.0	795.1	786.0	736.0	672.4	604.2	549.7	477.0	436.1	427.1
77.5°	508.8	522.5	536.1	517.9	486.1	427.1	381.6	313.5	259.0	227.2	222.6
80°	372.5	390.7	399.8	386.2	349.8	304.4	254.4	199.9	159.0	131.8	131.8
82.5°	286.2	304.4	313.5	290.8	254.4	218.1	181.7	140.8	109.0	86.3	81.8
85°	99.9	95.4	113.6	118.1	140.8	131.8	109.0	81.8	63.6	45.4	40.9
87.5°	27.3	27.3	31.8	31.8	27.3	22.7	22.7	22.7	18.2	13.6	13.6
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)