

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: P533297

Luminaire Tested: **GALN-SA8D-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533297  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-727-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38972 lumens  
Efficiency: N/A  
Efficacy: 79.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

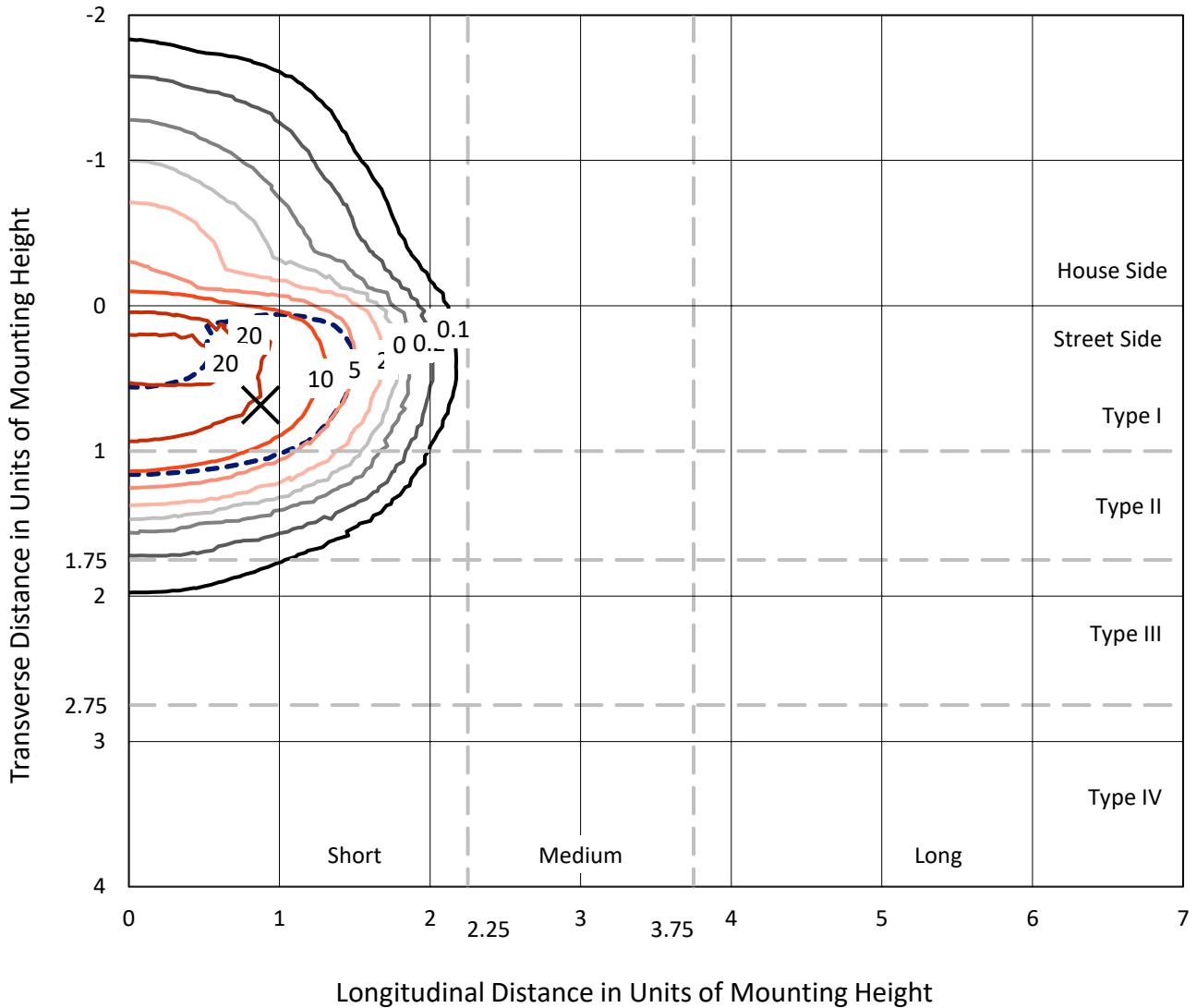
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

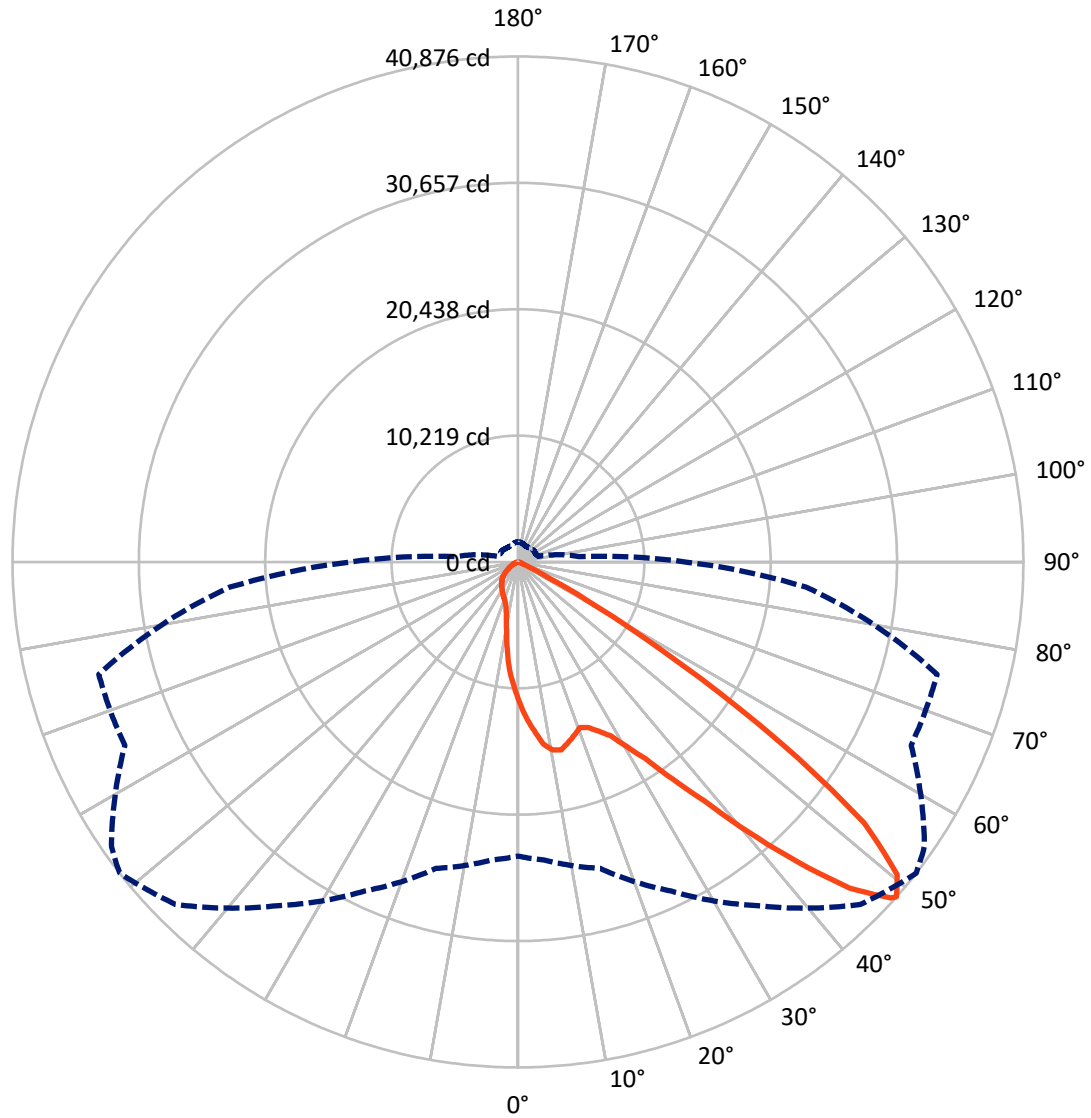
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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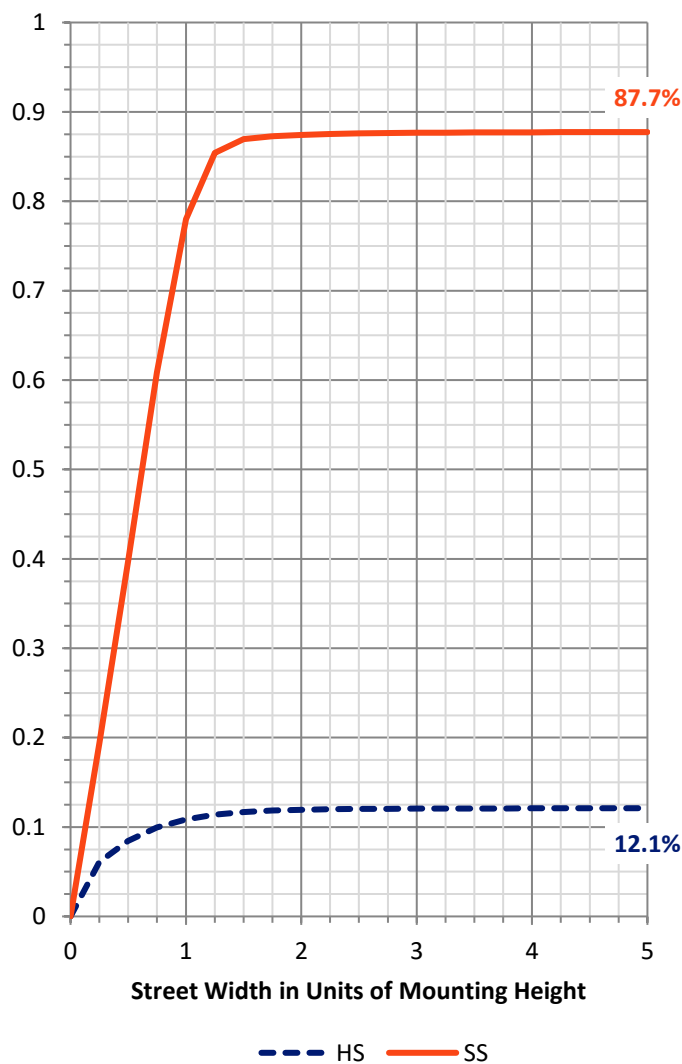
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4745.1	0.0	4745.1
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	34226.8	0.0	34226.8
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	38972.0	0.0	38972.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1030.1	2.6
10°-20°	2692.0	6.9
20°-30°	4596.4	11.8
30°-40°	8464.3	21.7
40°-50°	13145.0	33.7
50°-60°	7911.1	20.3
60°-70°	915.0	2.3
70°-80°	177.1	0.5
80°-90°	41.0	0.1
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°	38972.0	100.0
0°-180°	38972.0	100.0

**Coefficient of Utilization**



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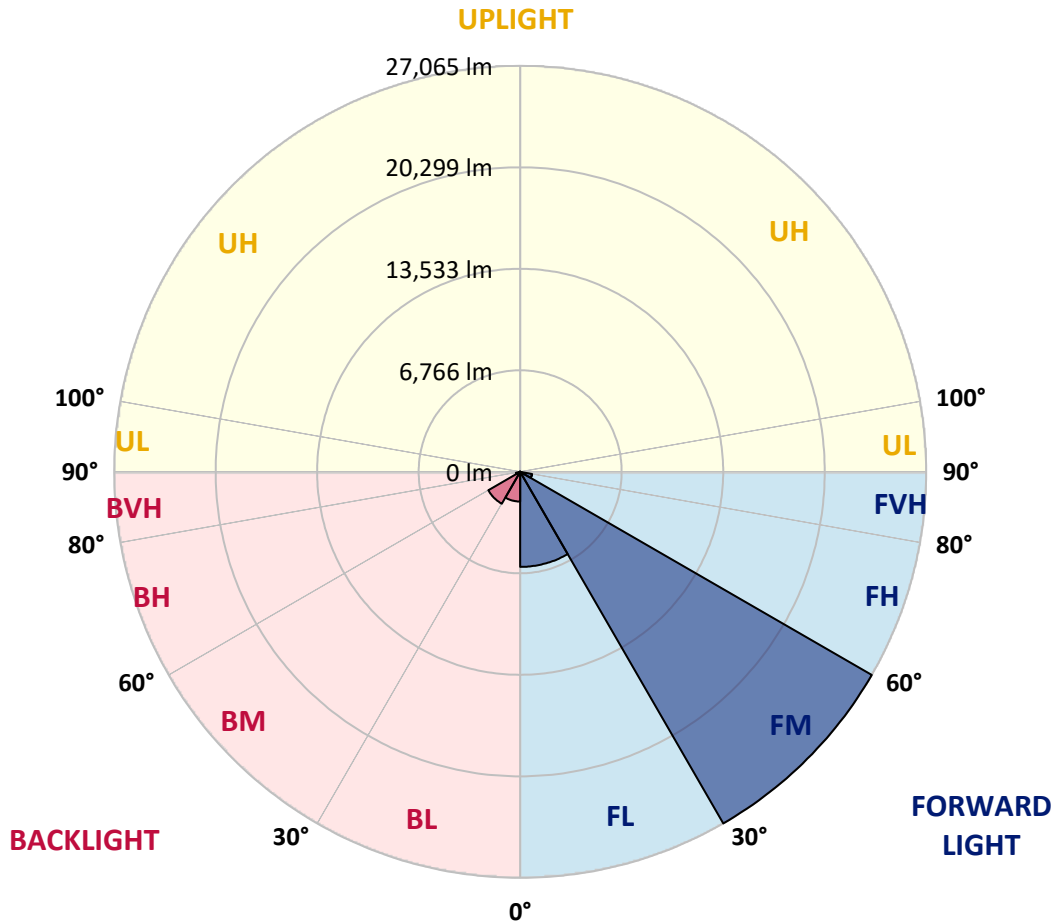
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6336.3	16.3			
FM (30°-60°)	27065.3	69.4			
FH (60°-80°)	805.7	2.1			G1/1800
FVH (80°-90°)	19.5	0.1			G1/100
BL (0°-30°)	1982.2	5.1	B3/2500		
BM (30°-60°)	2455.1	6.3	B2/2500		
BH (60°-80°)	286.4	0.7	B1/500		G1/500
BVH (80°-90°)	21.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	11254.5	11254.5	11254.5	11254.5	11254.5	11254.5	11254.5	11254.5	11254.5	11254.5	11254.5
2.5°	13640.6	13328.1	13356.5	13152.0	13032.7	12839.5	12578.2	12527.1	12243.0	11856.7	11464.7
5°	14867.7	14793.9	14890.4	14595.0	14606.4	14288.2	13674.7	13686.0	13032.7	12402.1	11794.2
7.5°	14947.2	14776.8	14873.4	15134.7	15288.1	15231.3	14884.8	14583.7	13964.4	13038.4	12152.1
10°	13384.9	13708.7	13811.0	14242.8	14856.4	15504.0	15464.2	15481.3	14964.3	13754.2	12458.9
12.5°	12447.5	12231.6	12578.2	12839.5	13765.6	15021.1	15594.9	15719.9	15759.7	14447.3	12765.7
15°	12021.4	12021.4	12078.2	12152.1	12822.5	13981.4	15151.8	15515.4	16373.2	15356.3	13248.6
17.5°	12288.4	12277.1	12356.6	12203.2	12453.2	13345.1	14742.7	15157.5	17060.7	16248.2	13629.2
20°	13100.9	13140.6	13089.5	12646.4	12663.4	13333.8	14288.2	14941.6	17526.5	17020.9	14134.8
22.5°	14231.4	14254.1	13964.4	13481.5	13339.5	13669.0	14549.6	15049.5	17901.5	17946.9	14288.2
25°	15538.1	15447.2	15390.4	14708.6	14276.9	14560.9	15140.4	15430.2	18134.4	18742.3	14725.7
27.5°	17350.4	17168.6	16822.0	16214.2	15896.0	15492.6	15907.4	16384.6	18799.1	19855.8	15202.9
30°	20026.2	19867.2	19191.1	18407.1	17572.0	17174.3	17304.9	17566.3	19997.8	21145.4	15833.5
32.5°	24054.2	23719.0	22741.9	21247.7	20111.5	19015.0	18980.9	19259.3	21071.6	22929.3	16583.4
35°	28491.2	28389.0	26951.6	25412.0	23213.4	21520.4	21548.8	21696.5	23128.2	25270.0	17566.3
37.5°	31439.8	32002.2	31087.6	29434.3	27587.9	25167.7	24554.2	24605.3	25951.7	28042.4	19338.8
40°	33717.9	33240.7	33348.7	32962.3	31701.1	30053.6	28695.8	28428.7	29218.4	31110.3	21100.0
42.5°	32723.7	32746.5	33411.2	34325.8	34638.3	34519.0	33132.8	32627.2	32013.6	33621.4	22775.9
45°	29917.2	30502.4	31365.9	33786.1	35910.9	37905.0	37632.3	36791.5	33945.2	35609.8	23741.8
47.5°	25440.4	25417.7	26832.3	29979.7	34700.8	39370.7	40609.3	40018.4	35314.4	35388.2	23542.9
48°	23787.2	24196.3	25656.3	29360.5	33933.8	39154.9	40876.3	40132.0	35081.4	35092.8	23372.5
50°	17583.3	17509.5	19327.5	23872.4	30309.2	36791.5	39751.4	40330.9	35075.8	33598.6	22179.4
52.5°	9288.8	9606.9	10930.6	15009.7	21429.5	30110.4	35064.4	35967.7	33837.3	31155.7	20463.7
55°	3948.4	3567.8	4584.7	6777.7	12055.5	20117.1	25724.5	27735.6	28610.5	27570.9	17901.5
57.5°	1408.9	1539.6	1772.5	2550.9	5067.6	11010.2	15339.3	16901.6	19821.7	20230.8	12197.5
60°	903.3	920.4	994.2	1170.3	1903.2	4243.9	7277.6	8521.8	9845.5	10163.7	5692.6
62.5°	698.8	704.5	738.6	767.0	903.3	1647.5	2732.7	3238.3	3363.3	2891.7	1494.2
65°	585.2	590.8	602.2	602.2	642.0	772.6	954.4	1051.0	1022.6	1011.3	846.5
67.5°	448.8	460.2	482.9	482.9	505.6	471.5	528.4	562.4	636.3	772.6	721.5
70°	352.2	357.9	375.0	386.3	386.3	340.9	380.6	414.7	465.9	573.8	568.1
72.5°	272.7	284.1	295.4	295.4	278.4	232.9	272.7	301.1	335.2	397.7	386.3
75°	210.2	210.2	215.9	176.1	136.3	119.3	164.8	198.8	250.0	261.3	215.9
77.5°	56.8	62.5	56.8	51.1	56.8	85.2	107.9	125.0	159.1	159.1	142.0
80°	0.0	5.7	17.0	34.1	56.8	79.5	96.6	107.9	125.0	136.3	130.7
82.5°	0.0	5.7	17.0	34.1	51.1	62.5	85.2	90.9	102.3	119.3	119.3
85°	0.0	5.7	11.4	22.7	34.1	39.8	39.8	34.1	34.1	28.4	22.7
87.5°	0.0	0.0	5.7	11.4	11.4	17.0	17.0	17.0	17.0	17.0	17.0
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°	11254.5	11254.5	11254.5	11254.5	11254.5	11254.5	11254.5	11254.5	11254.5	11254.5	11254.5
2.5°	11311.3	11135.2	10868.1	10447.7	10044.4	9783.0	9533.1	9254.7	9101.3	9089.9	9004.7
5°	11447.6	11049.9	10413.6	9692.1	8919.5	8254.8	7584.4	7147.0	6755.0	6539.1	6499.3
7.5°	11521.5	11004.5	9976.2	8766.1	7448.1	6362.9	5613.0	5062.0	4846.1	4687.0	4681.3
10°	11674.9	10925.0	9322.9	7539.0	5908.5	4812.0	4295.0	4045.0	3925.7	3880.3	3812.1
12.5°	11788.5	10777.2	8652.5	6277.7	4670.0	3988.2	3761.0	3704.1	3709.8	3732.6	3704.1
15°	11947.6	10646.6	7749.2	5152.9	3920.0	3590.5	3590.5	3601.9	3681.4	3692.8	3687.1
17.5°	11936.2	10390.9	6817.4	4243.9	3465.5	3420.1	3437.1	3545.1	3596.2	3613.2	3573.5
20°	12072.6	10152.3	5857.3	3624.6	3209.9	3278.1	3391.7	3420.1	3482.6	3493.9	3448.5
22.5°	12032.8	9555.8	4965.4	3136.0	3016.7	3147.4	3261.0	3295.1	3278.1	3244.0	3238.3
25°	11958.9	9044.5	4147.3	2812.2	2874.7	3016.7	3124.7	3062.2	3028.1	3033.8	3039.4
27.5°	11828.3	8396.8	3471.2	2584.9	2681.5	2891.7	2886.1	2863.3	2897.4	2869.0	2897.4
30°	11805.5	7749.2	2914.5	2380.4	2539.5	2692.9	2704.3	2744.0	2783.8	2732.7	2783.8
32.5°	11839.6	7039.0	2516.8	2255.4	2454.3	2460.0	2584.9	2624.7	2596.3	2482.7	2494.0
35°	12101.0	6493.6	2227.0	2187.3	2317.9	2323.6	2442.9	2391.8	2266.8	2198.6	2238.4
37.5°	12652.0	6039.1	2090.7	2124.8	2136.1	2210.0	2215.7	2113.4	2124.8	2119.1	2141.8
40°	13356.5	5692.6	1994.1	2068.0	2056.6	2107.7	1903.2	1960.0	2011.1	2028.2	2039.6
42.5°	13839.4	5442.6	1931.6	1977.1	1954.3	1863.4	1749.8	1806.6	1846.4	1908.9	1920.2
45°	14055.3	5243.8	1857.8	1818.0	1818.0	1653.2	1607.8	1619.1	1710.0	1778.2	1766.9
47.5°	13703.1	5050.6	1727.1	1607.8	1647.5	1511.2	1460.1	1460.1	1556.7	1641.9	1624.8
48°	13566.7	4971.1	1732.8	1562.3	1590.7	1488.5	1437.3	1426.0	1533.9	1613.5	1613.5
50°	12890.7	4675.6	1585.1	1437.3	1380.5	1369.2	1335.1	1346.4	1414.6	1488.5	1488.5
52.5°	11572.6	4039.3	1340.8	1232.8	1130.6	1198.7	1215.8	1193.1	1227.1	1295.3	1289.6
55°	9658.0	3101.9	1073.7	1022.6	943.1	1016.9	1051.0	1022.6	988.5	1039.7	1039.7
57.5°	6186.8	1670.3	857.9	869.2	789.7	863.5	891.9	823.8	761.3	801.0	795.4
60°	2789.5	999.9	704.5	687.4	636.3	721.5	767.0	687.4	602.2	630.6	659.0
62.5°	1045.3	710.2	534.0	522.7	511.3	590.8	613.6	551.1	465.9	482.9	488.6
65°	767.0	624.9	426.1	386.3	409.0	465.9	454.5	392.0	335.2	335.2	346.6
67.5°	653.3	545.4	346.6	301.1	301.1	306.8	284.1	250.0	232.9	244.3	255.7
70°	511.3	431.8	272.7	232.9	210.2	187.5	164.8	159.1	142.0	159.1	153.4
72.5°	329.5	289.7	210.2	176.1	159.1	130.7	107.9	102.3	85.2	79.5	79.5
75°	176.1	176.1	164.8	142.0	125.0	102.3	85.2	68.2	45.4	34.1	34.1
77.5°	125.0	136.3	147.7	136.3	113.6	85.2	68.2	45.4	22.7	11.4	11.4
80°	119.3	136.3	147.7	130.7	113.6	85.2	62.5	34.1	17.0	5.7	5.7
82.5°	107.9	125.0	136.3	119.3	102.3	73.9	56.8	34.1	17.0	5.7	5.7
85°	22.7	28.4	34.1	34.1	39.8	51.1	39.8	28.4	11.4	5.7	5.7
87.5°	17.0	17.0	17.0	17.0	17.0	17.0	11.4	11.4	5.7	5.7	5.7
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)