

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: P530567

Luminaire Tested: **GALN-SA5D-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530567  
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-SA5D-740-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 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: 28900 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

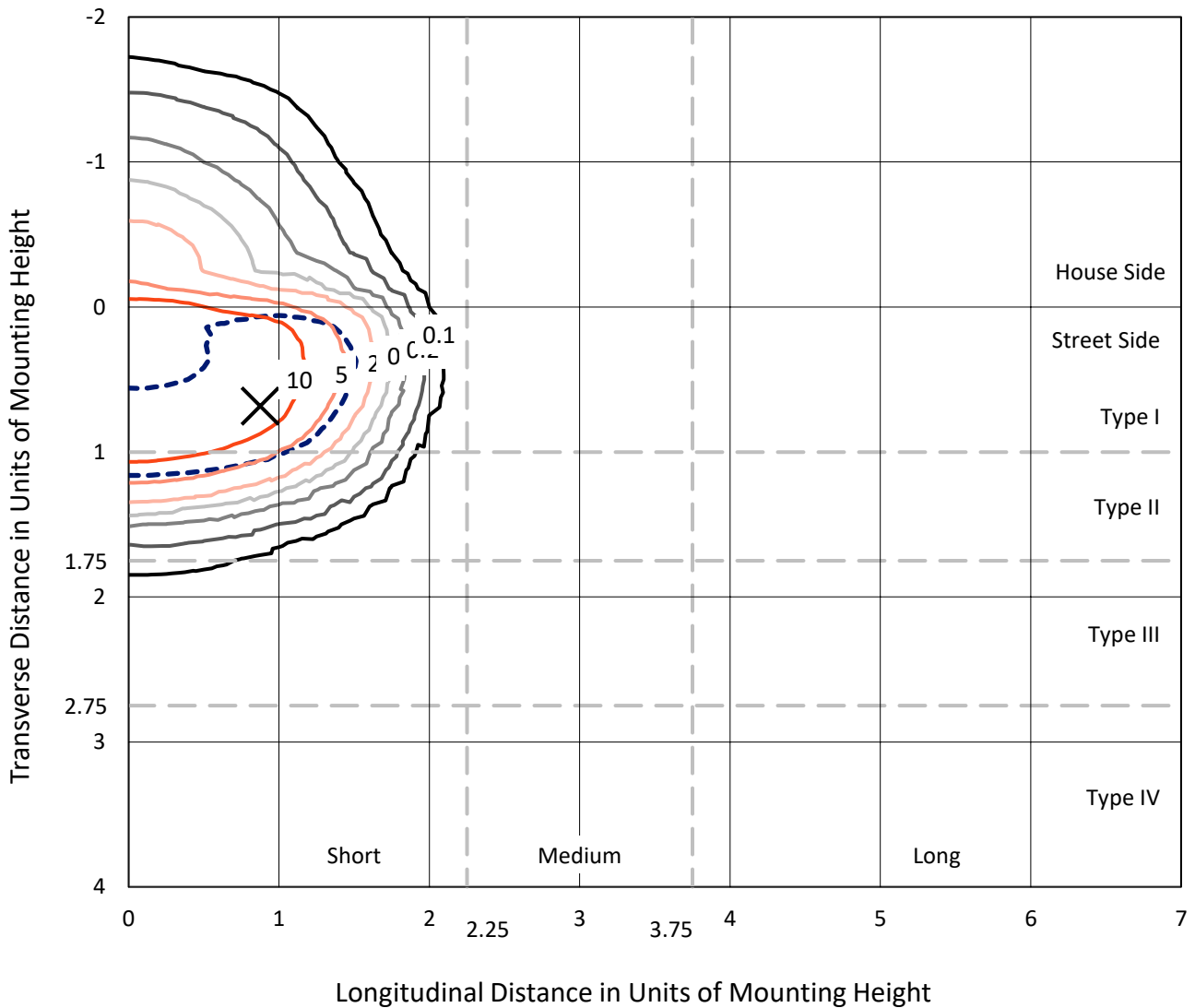
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

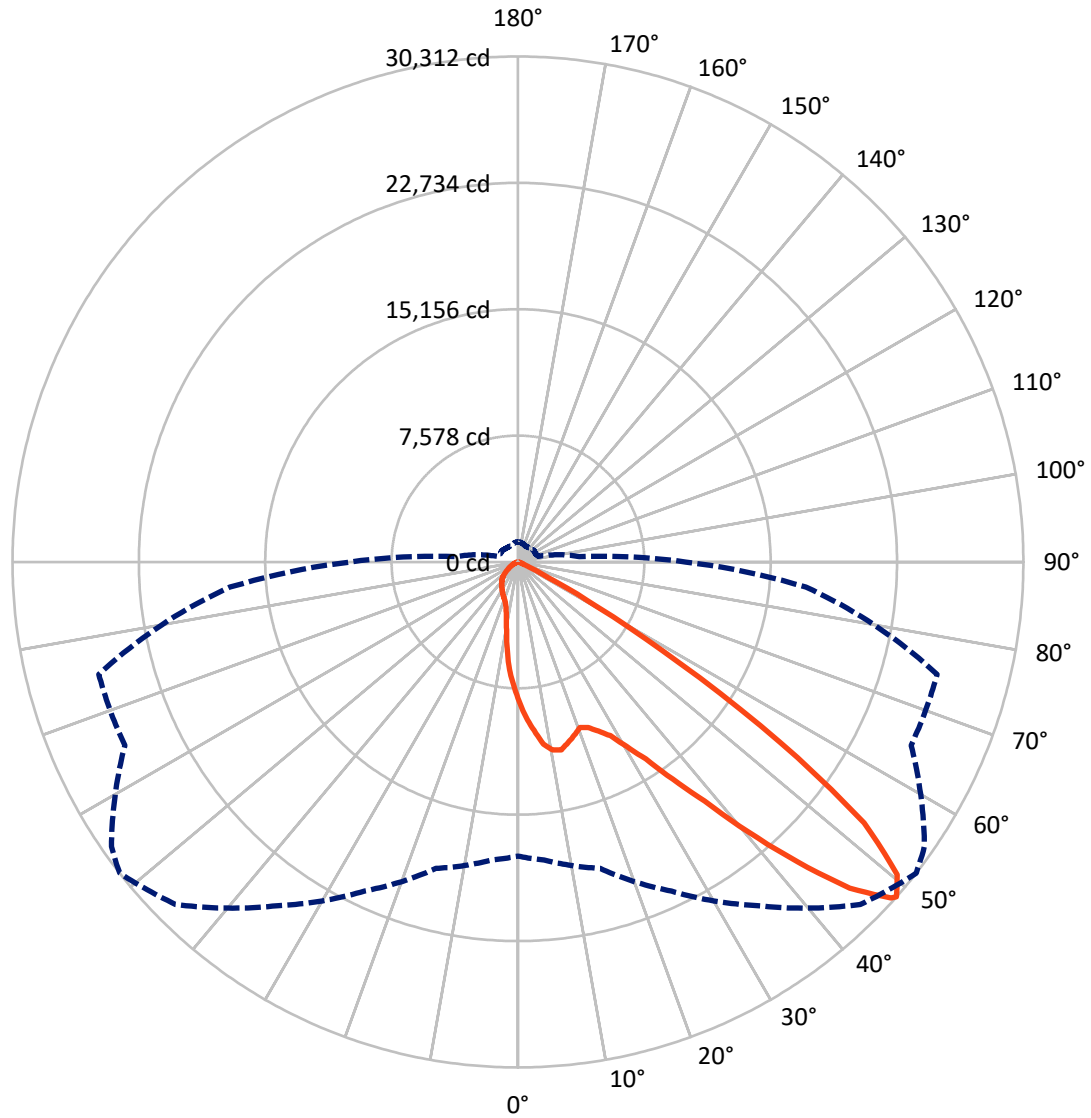
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 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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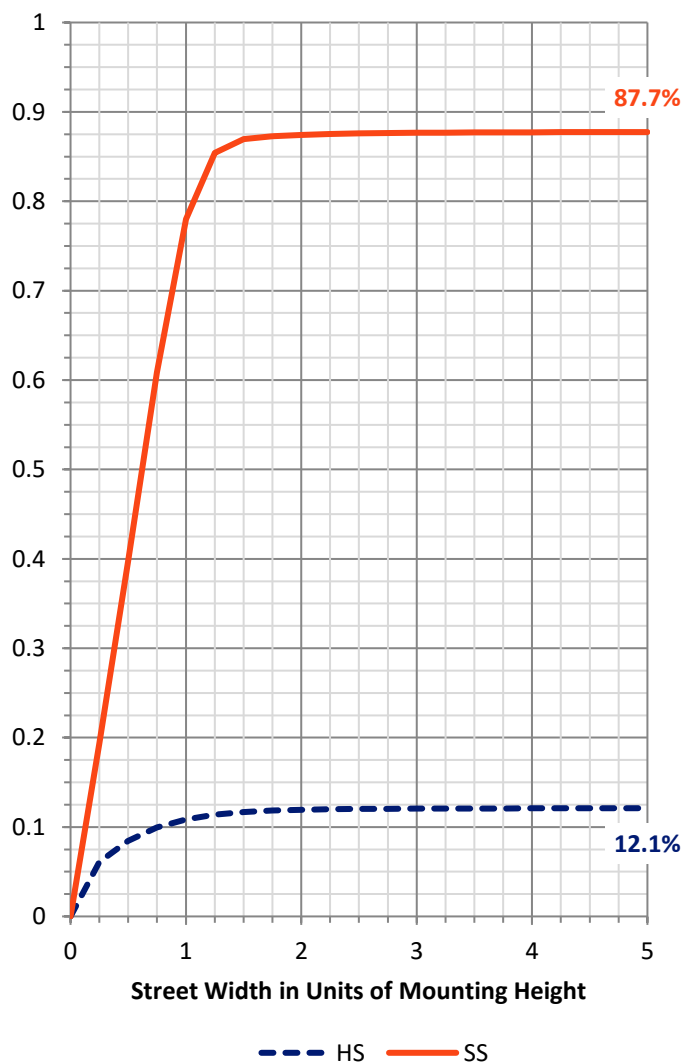
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3518.8	0.0	3518.8
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	25381.2	0.0	25381.2
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	28900.0	0.0	28900.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	763.9	2.6
10°-20°	1996.3	6.9
20°-30°	3408.5	11.8
30°-40°	6276.8	21.7
40°-50°	9747.8	33.7
50°-60°	5866.5	20.3
60°-70°	678.5	2.3
70°-80°	131.3	0.5
80°-90°	30.4	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°	28900.0	100.0
0°-180°	28900.0	100.0

**Coefficient of Utilization**



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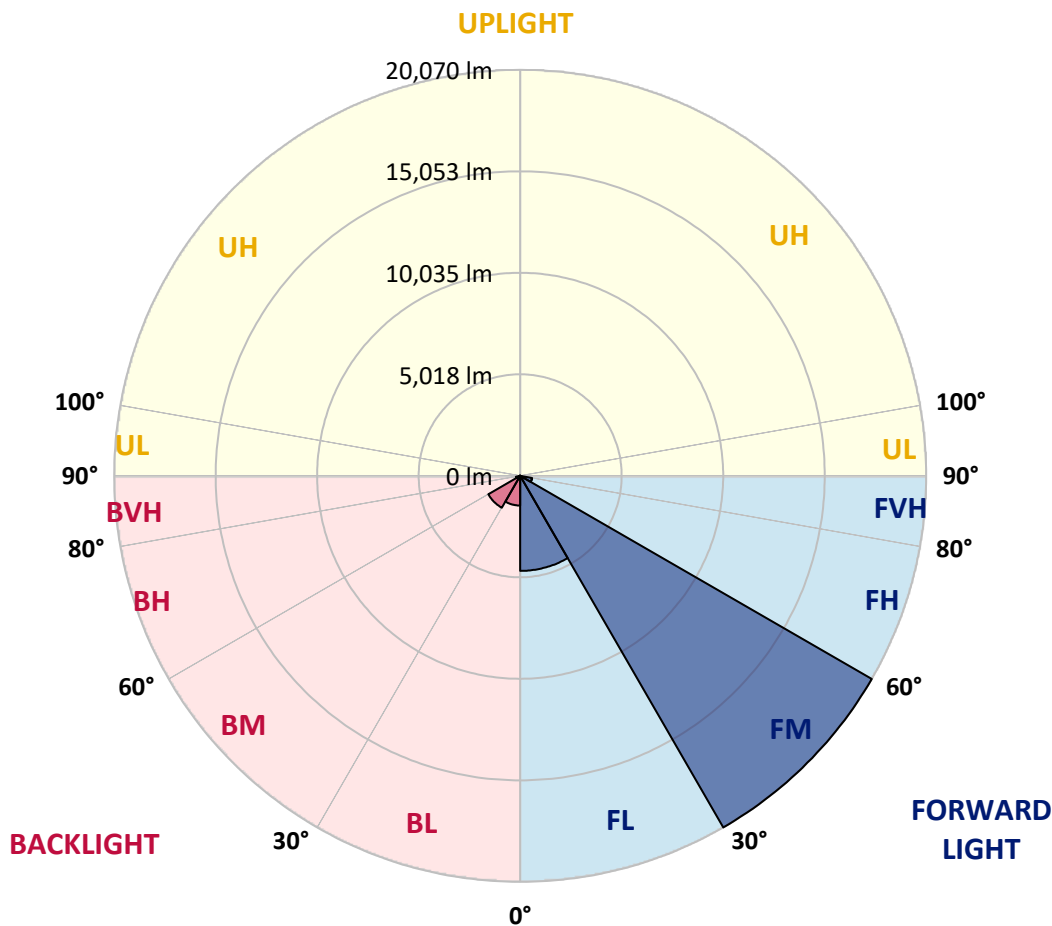
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4698.8	16.3			
FM (30°-60°)	20070.5	69.4			
FH (60°-80°)	597.5	2.1			G0/660
FVH (80°-90°)	14.5	0.1			G1/100
BL (0°-30°)	1469.9	5.1	B3/2500		
BM (30°-60°)	1820.6	6.3	B2/2500		
BH (60°-80°)	212.4	0.7	B1/500		G1/500
BVH (80°-90°)	15.9	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°	8345.8	8345.8	8345.8	8345.8	8345.8	8345.8	8345.8	8345.8	8345.8	8345.8	8345.8
2.5°	10115.3	9883.6	9904.6	9753.0	9664.5	9521.3	9327.5	9289.5	9078.9	8792.4	8501.7
5°	11025.3	10970.5	11042.1	10823.1	10831.5	10595.6	10140.6	10149.0	9664.5	9196.9	8746.1
7.5°	11084.3	10957.9	11029.5	11223.3	11337.0	11294.9	11037.9	10814.6	10355.4	9668.7	9011.5
10°	9925.7	10165.8	10241.7	10561.8	11016.8	11497.1	11467.6	11480.3	11096.9	10199.5	9239.0
12.5°	9230.6	9070.5	9327.5	9521.3	10208.0	11139.0	11564.5	11657.2	11686.7	10713.5	9466.5
15°	8914.6	8914.6	8956.7	9011.5	9508.6	10368.1	11235.9	11505.5	12141.7	11387.6	9824.6
17.5°	9112.6	9104.2	9163.2	9049.4	9234.8	9896.2	10932.6	11240.1	12651.5	12049.0	10106.9
20°	9715.0	9744.5	9706.6	9378.0	9390.6	9887.8	10595.6	11080.0	12996.9	12622.0	10481.8
22.5°	10553.4	10570.3	10355.4	9997.3	9892.0	10136.3	10789.3	11160.1	13275.0	13308.7	10595.6
25°	11522.4	11455.0	11412.9	10907.3	10587.1	10797.8	11227.5	11442.4	13447.7	13898.5	10919.9
27.5°	12866.3	12731.5	12474.5	12023.7	11787.8	11488.7	11796.2	12150.1	13940.6	14724.2	11273.8
30°	14850.6	14732.7	14231.3	13649.9	13030.6	12735.7	12832.6	13026.4	14829.6	15680.6	11741.5
32.5°	17837.6	17589.0	16864.4	15756.4	14913.8	14100.7	14075.4	14281.9	15625.8	17003.4	12297.6
35°	21127.9	21052.1	19986.2	18844.5	17214.1	15958.6	15979.7	16089.2	17150.9	18739.2	13026.4
37.5°	23314.4	23731.5	23053.2	21827.3	20458.1	18663.3	18208.3	18246.3	19244.7	20795.1	14340.9
40°	25003.8	24649.9	24730.0	24443.5	23508.2	22286.5	21279.6	21081.6	21667.2	23070.1	15646.9
42.5°	24266.6	24283.4	24776.3	25454.6	25686.3	25597.8	24569.9	24194.9	23739.9	24932.2	16889.7
45°	22185.4	22619.3	23259.7	25054.4	26630.0	28108.8	27906.5	27283.0	25172.3	26406.7	17605.9
47.5°	18865.6	18848.7	19897.7	22231.7	25732.7	29195.7	30114.1	29676.0	26187.7	26242.4	17458.4
48°	17639.6	17942.9	19025.7	21772.5	25163.9	29035.6	30312.1	29760.2	26014.9	26023.3	17332.0
50°	13039.1	12984.3	14332.4	17702.8	22476.1	27283.0	29478.0	29907.7	26010.7	24915.3	16447.3
52.5°	6888.2	7124.1	8105.7	11130.6	15891.2	22328.6	26002.3	26672.1	25092.3	23103.8	15175.0
55°	2928.0	2645.7	3399.8	5026.0	8939.9	14918.0	19076.2	20567.6	21216.4	20445.4	13275.0
57.5°	1044.8	1141.7	1314.4	1891.6	3757.9	8164.7	11374.9	12533.5	14699.0	15002.3	9045.2
60°	669.9	682.5	737.3	867.9	1411.3	3147.1	5396.8	6319.4	7301.0	7537.0	4221.4
62.5°	518.2	522.4	547.7	568.7	669.9	1221.8	2026.4	2401.4	2494.1	2144.4	1108.0
65°	433.9	438.1	446.6	446.6	476.1	573.0	707.8	779.4	758.3	749.9	627.7
67.5°	332.8	341.2	358.1	358.1	375.0	349.7	391.8	417.1	471.8	573.0	535.0
70°	261.2	265.4	278.1	286.5	286.5	252.8	282.3	307.5	345.5	425.5	421.3
72.5°	202.2	210.6	219.1	219.1	206.4	172.7	202.2	223.3	248.6	294.9	286.5
75°	155.9	155.9	160.1	130.6	101.1	88.5	122.2	147.5	185.4	193.8	160.1
77.5°	42.1	46.3	42.1	37.9	42.1	63.2	80.0	92.7	118.0	118.0	105.3
80°	0.0	4.2	12.6	25.3	42.1	59.0	71.6	80.0	92.7	101.1	96.9
82.5°	0.0	4.2	12.6	25.3	37.9	46.3	63.2	67.4	75.8	88.5	88.5
85°	0.0	4.2	8.4	16.9	25.3	29.5	29.5	25.3	25.3	21.1	16.9
87.5°	0.0	0.0	4.2	8.4	8.4	12.6	12.6	12.6	12.6	12.6	12.6
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°	8345.8	8345.8	8345.8	8345.8	8345.8	8345.8	8345.8	8345.8	8345.8	8345.8	8345.8
2.5°	8388.0	8257.4	8059.4	7747.6	7448.5	7254.7	7069.3	6862.9	6749.1	6740.7	6677.5
5°	8489.1	8194.2	7722.3	7187.3	6614.3	6121.4	5624.3	5299.9	5009.2	4849.1	4819.6
7.5°	8543.8	8160.5	7397.9	6500.6	5523.2	4718.5	4162.4	3753.7	3593.6	3475.7	3471.5
10°	8657.6	8101.5	6913.4	5590.6	4381.5	3568.4	3185.0	2999.6	2911.1	2877.4	2826.9
12.5°	8741.9	7992.0	6416.3	4655.3	3463.0	2957.5	2789.0	2746.8	2751.1	2767.9	2746.8
15°	8859.8	7895.1	5746.5	3821.1	2906.9	2662.6	2662.6	2671.0	2730.0	2738.4	2734.2
17.5°	8851.4	7705.5	5055.5	3147.1	2569.9	2536.2	2548.8	2628.9	2666.8	2679.4	2649.9
20°	8952.5	7528.5	4343.5	2687.9	2380.3	2430.9	2515.1	2536.2	2582.5	2591.0	2557.3
22.5°	8923.0	7086.2	3682.1	2325.5	2237.1	2334.0	2418.2	2443.5	2430.9	2405.6	2401.4
25°	8868.2	6707.0	3075.4	2085.4	2131.7	2237.1	2317.1	2270.8	2245.5	2249.7	2253.9
27.5°	8771.3	6226.7	2574.1	1916.9	1988.5	2144.4	2140.2	2123.3	2148.6	2127.5	2148.6
30°	8754.5	5746.5	2161.2	1765.2	1883.2	1996.9	2005.4	2034.9	2064.3	2026.4	2064.3
32.5°	8779.8	5219.8	1866.3	1672.5	1820.0	1824.2	1916.9	1946.4	1925.3	1841.1	1849.5
35°	8973.6	4815.4	1651.5	1622.0	1718.9	1723.1	1811.6	1773.6	1681.0	1630.4	1659.9
37.5°	9382.2	4478.4	1550.4	1575.6	1584.1	1638.8	1643.0	1567.2	1575.6	1571.4	1588.3
40°	9904.6	4221.4	1478.7	1533.5	1525.1	1563.0	1411.3	1453.5	1491.4	1504.0	1512.4
42.5°	10262.7	4036.0	1432.4	1466.1	1449.3	1381.8	1297.6	1339.7	1369.2	1415.5	1424.0
45°	10422.8	3888.5	1377.6	1348.1	1348.1	1226.0	1192.3	1200.7	1268.1	1318.7	1310.2
47.5°	10161.6	3745.3	1280.7	1192.3	1221.8	1120.6	1082.7	1082.7	1154.3	1217.5	1204.9
48°	10060.5	3686.3	1284.9	1158.6	1179.6	1103.8	1065.9	1057.4	1137.5	1196.5	1196.5
50°	9559.2	3467.3	1175.4	1065.9	1023.7	1015.3	990.0	998.5	1049.0	1103.8	1103.8
52.5°	8581.8	2995.4	994.3	914.2	838.4	888.9	901.6	884.7	910.0	960.6	956.3
55°	7162.0	2300.3	796.2	758.3	699.3	754.1	779.4	758.3	733.1	771.0	771.0
57.5°	4587.9	1238.6	636.2	644.6	585.6	640.4	661.4	610.9	564.5	594.0	589.8
60°	2068.6	741.5	522.4	509.8	471.8	535.0	568.7	509.8	446.6	467.6	488.7
62.5°	775.2	526.6	396.0	387.6	379.2	438.1	455.0	408.7	345.5	358.1	362.3
65°	568.7	463.4	316.0	286.5	303.3	345.5	337.0	290.7	248.6	248.6	257.0
67.5°	484.5	404.4	257.0	223.3	223.3	227.5	210.6	185.4	172.7	181.2	189.6
70°	379.2	320.2	202.2	172.7	155.9	139.0	122.2	118.0	105.3	118.0	113.7
72.5°	244.4	214.9	155.9	130.6	118.0	96.9	80.0	75.8	63.2	59.0	59.0
75°	130.6	130.6	122.2	105.3	92.7	75.8	63.2	50.6	33.7	25.3	25.3
77.5°	92.7	101.1	109.5	101.1	84.3	63.2	50.6	33.7	16.9	8.4	8.4
80°	88.5	101.1	109.5	96.9	84.3	63.2	46.3	25.3	12.6	4.2	4.2
82.5°	80.0	92.7	101.1	88.5	75.8	54.8	42.1	25.3	12.6	4.2	4.2
85°	16.9	21.1	25.3	25.3	29.5	37.9	29.5	21.1	8.4	4.2	4.2
87.5°	12.6	12.6	12.6	12.6	12.6	12.6	8.4	8.4	4.2	4.2	4.2
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)