

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: P528436

Luminaire Tested: **GALN-SA3C-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528436  
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-SA3C-735-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1050mA 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: 17642 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

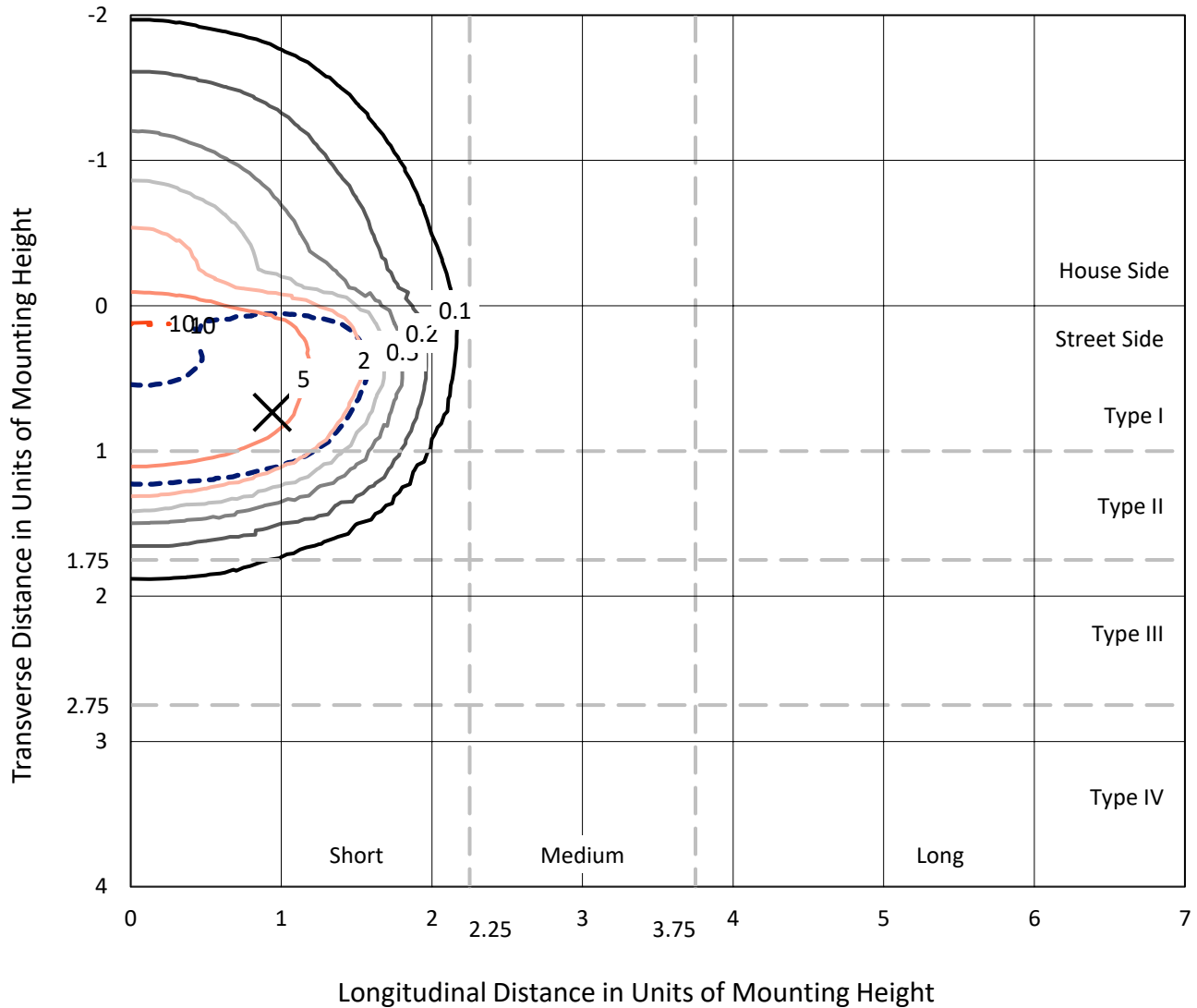
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

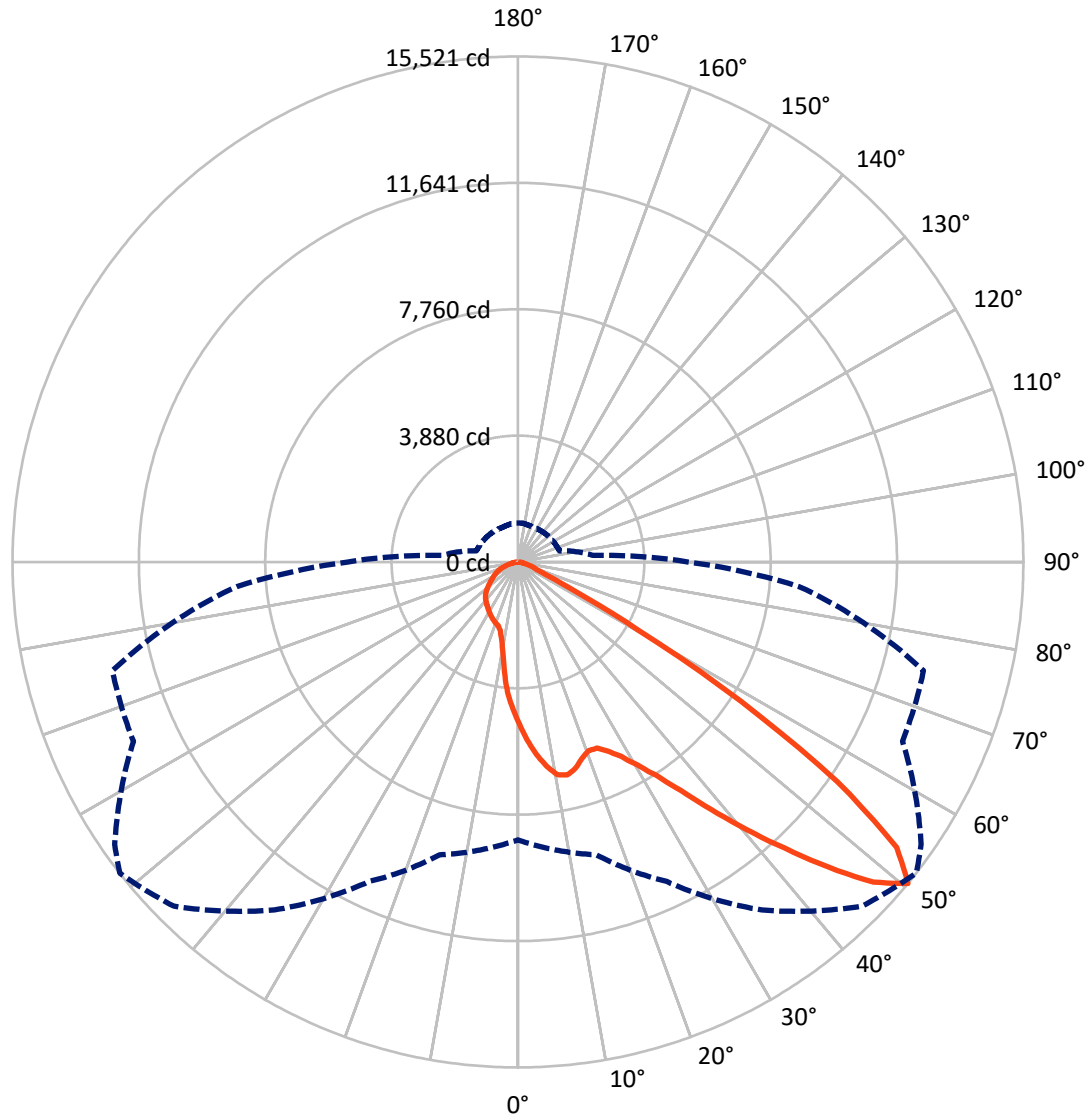
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA3C-735-U-AFL-GRSWH

### Luminous Intensity Polar Plot



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

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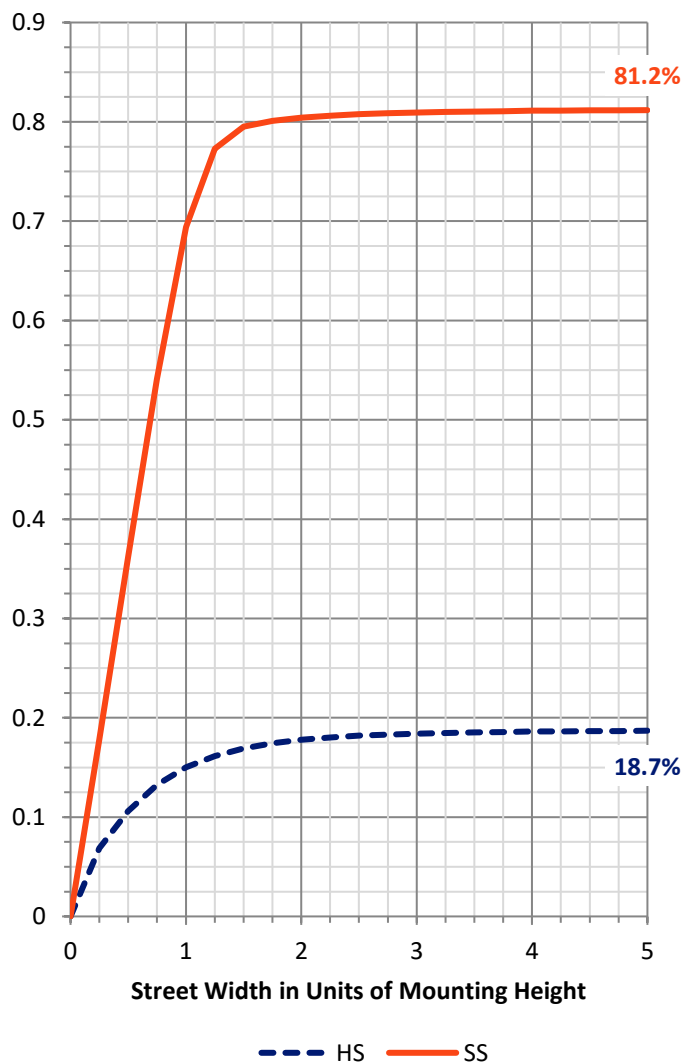
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3316.3	0.0	3316.3
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	14325.7	0.0	14325.7
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	17642.0	0.0	17642.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	458.4	2.6
10°-20°	1228.5	7.0
20°-30°	2069.4	11.7
30°-40°	3472.6	19.7
40°-50°	5312.2	30.1
50°-60°	3873.0	22.0
60°-70°	861.9	4.9
70°-80°	310.9	1.8
80°-90°	55.0	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°	17642.0	100.0
0°-180°	17642.0	100.0

**Coefficient of Utilization**

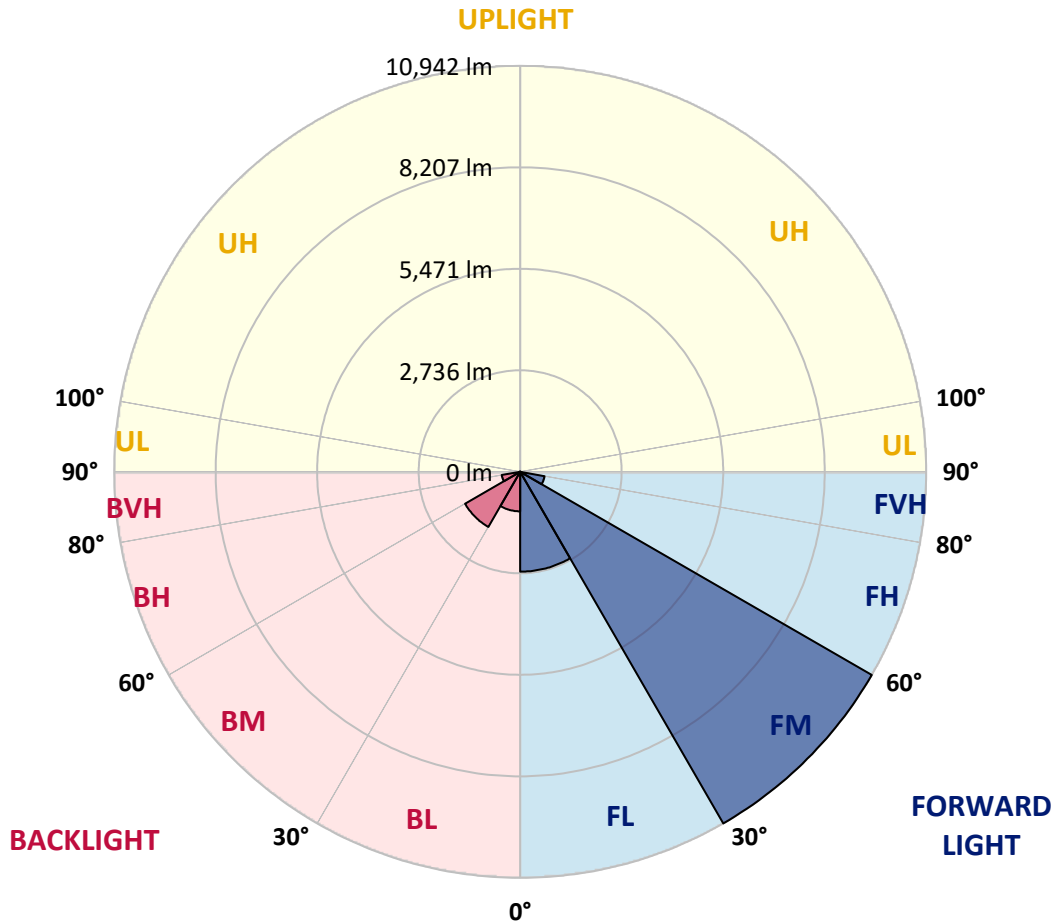


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2691.0	15.3			
FM (30°-60°)	10942.5	62.0			
FH (60°-80°)	667.6	3.8			G1/1800
FVH (80°-90°)	24.7	0.1			G1/100
BL (0°-30°)	1065.3	6.0	B3/2500		
BM (30°-60°)	1715.4	9.7	B2/2500		
BH (60°-80°)	505.2	2.9	B2/1000		G2/1000
BVH (80°-90°)	30.4	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0
2.5°	5855.3	5742.6	5755.4	5674.6	5587.4	5561.9	5472.6	5387.6	5323.8	5187.7	5062.3
5°	6399.6	6365.6	6314.6	6250.8	6184.9	6023.3	5931.9	5825.6	5591.7	5381.2	5172.8
7.5°	6478.3	6471.9	6499.5	6499.5	6522.9	6461.3	6331.6	6257.2	6008.4	5666.1	5279.1
10°	5925.5	5944.6	6078.6	6252.9	6495.3	6663.3	6642.0	6622.9	6350.7	5883.0	5404.6
12.5°	5485.4	5442.9	5521.5	5670.4	6033.9	6440.0	6714.3	6716.4	6646.2	6229.5	5496.0
15°	5236.6	5266.4	5287.7	5357.8	5632.1	6102.0	6584.6	6727.0	7035.3	6474.0	5640.6
17.5°	5396.1	5296.2	5291.9	5308.9	5449.2	5802.2	6344.3	6588.8	7247.9	6788.7	5819.2
20°	5604.4	5602.3	5542.8	5521.5	5519.4	5834.1	6187.0	6518.7	7360.6	7196.9	5999.9
22.5°	5970.1	5970.1	5872.3	5825.6	5725.6	5982.9	6208.3	6433.6	7547.7	7477.6	6087.1
25°	6582.5	6482.5	6314.6	6199.8	6142.4	6233.8	6433.6	6635.6	7711.4	7775.2	6267.8
27.5°	7148.0	6990.7	6907.8	6710.0	6633.5	6580.3	6763.2	6967.3	7902.8	8238.7	6365.6
30°	7790.1	7762.5	7613.6	7358.5	7169.3	7071.5	7239.4	7441.4	8253.6	8712.8	6591.0
32.5°	8938.2	8687.3	8485.3	8172.8	7864.5	7656.1	7822.0	7955.9	8836.1	9208.2	6837.6
35°	10177.7	10096.9	9748.2	9184.8	8712.8	8525.7	8623.5	8723.5	9514.4	9965.1	7252.2
37.5°	11396.0	11285.4	10998.4	10524.3	9950.2	9569.7	9639.8	9756.8	10275.5	10985.6	7758.2
40°	12271.9	12135.9	11991.3	11921.1	11351.3	10830.4	10790.0	10819.8	11304.6	11942.4	8319.5
42.5°	12335.7	12503.7	12548.3	12831.1	12697.2	12269.8	12021.1	12027.4	12286.8	12888.5	8887.2
45°	12201.8	12046.6	12376.1	13147.9	13590.1	13790.0	13371.1	13318.0	12894.9	13437.1	9169.9
47.5°	10796.4	10838.9	11396.0	12616.4	13894.2	14787.1	14689.3	14512.9	13220.2	13417.9	9125.3
50°	8534.2	8791.5	9308.1	10828.3	13043.7	14944.5	15520.7	15112.4	13026.7	12890.6	8670.3
52.5°	5683.1	5789.4	6129.6	8092.0	10488.1	13358.4	14563.9	14657.4	12848.1	12199.7	8094.1
55°	2530.1	2521.6	3000.0	4226.7	6580.3	10165.0	11899.9	12469.7	12161.4	11495.9	7532.8
57.5°	1071.6	1107.7	1303.3	1826.3	3235.9	6133.8	8062.2	8561.9	9352.8	9440.0	5778.8
60°	725.0	729.3	782.4	914.2	1354.3	2880.9	4228.8	4828.4	5394.0	5355.7	3065.9
62.5°	569.8	584.7	625.1	678.2	803.7	1307.6	1892.2	2226.0	2262.2	1902.9	1163.0
65°	486.9	489.0	529.4	574.1	629.3	761.1	912.1	929.1	939.7	905.7	854.7
67.5°	401.8	406.1	438.0	489.0	540.0	582.6	625.1	646.3	695.2	790.9	778.2
70°	318.9	325.3	352.9	395.5	442.2	467.7	520.9	540.0	584.7	659.1	688.9
72.5°	242.4	244.5	267.9	297.7	340.2	365.7	410.3	431.6	461.4	525.2	552.8
75°	174.3	180.7	197.7	212.6	219.0	236.0	278.5	301.9	344.4	372.1	374.2
77.5°	91.4	95.7	99.9	99.9	121.2	153.1	180.7	193.5	223.2	244.5	233.9
80°	36.1	38.3	48.9	65.9	85.0	110.6	129.7	136.1	161.6	174.3	180.7
82.5°	21.3	23.4	31.9	46.8	61.7	78.7	93.5	99.9	116.9	131.8	136.1
85°	10.6	12.8	19.1	29.8	40.4	48.9	46.8	44.6	44.6	42.5	44.6
87.5°	4.3	4.3	6.4	6.4	6.4	8.5	10.6	10.6	10.6	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P528436

CATALOG NUMBER: GALN-SA3C-735-U-AFL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0	4973.0
2.5°	4979.4	4894.3	4815.7	4671.1	4513.7	4469.1	4286.3	4220.3	4173.6	4118.3	4101.3
5°	5004.9	4892.2	4639.2	4347.9	4116.2	3818.5	3622.9	3412.4	3259.3	3221.1	3210.4
7.5°	5058.0	4864.6	4428.7	3988.6	3514.5	3110.5	2802.2	2636.4	2489.7	2481.2	2466.3
10°	5117.6	4781.6	4199.1	3508.1	2902.1	2528.0	2343.0	2270.7	2234.5	2226.0	2221.8
12.5°	5166.5	4764.6	3941.8	3040.3	2468.4	2243.1	2187.8	2181.4	2196.3	2200.5	2209.0
15°	5187.7	4696.6	3631.4	2621.5	2198.4	2115.5	2138.9	2164.4	2175.0	2202.7	2181.4
17.5°	5228.1	4609.4	3248.7	2289.8	2047.5	2062.3	2102.7	2132.5	2149.5	2168.6	2141.0
20°	5249.4	4530.8	2889.4	2092.1	1994.3	2021.9	2077.2	2100.6	2121.9	2130.4	2098.5
22.5°	5230.2	4369.2	2572.6	1932.6	1943.3	1979.4	2028.3	2053.8	2041.1	2007.1	1987.9
25°	5179.2	4141.7	2243.1	1830.6	1871.0	1934.8	1973.0	1953.9	1930.5	1911.4	1905.0
27.5°	5177.1	3863.2	2004.9	1737.0	1809.3	1896.5	1883.7	1866.7	1877.4	1862.5	1845.5
30°	5187.7	3593.1	1809.3	1683.9	1764.7	1807.2	1822.1	1805.1	1817.8	1790.2	1798.7
32.5°	5132.4	3329.5	1681.8	1622.2	1711.5	1709.4	1758.3	1771.1	1741.3	1683.9	1692.4
35°	5155.8	3116.9	1573.3	1594.6	1652.0	1652.0	1690.3	1675.4	1596.7	1562.7	1571.2
37.5°	5317.4	2908.5	1520.2	1556.3	1594.6	1611.6	1598.8	1535.1	1515.9	1515.9	1520.2
40°	5470.5	2729.9	1488.3	1547.8	1541.4	1552.1	1458.5	1464.9	1464.9	1467.0	1456.4
42.5°	5606.6	2608.7	1462.8	1496.8	1507.4	1452.1	1394.7	1388.4	1403.2	1401.1	1392.6
45°	5655.5	2508.8	1426.6	1439.4	1447.9	1356.5	1328.8	1316.1	1333.1	1339.5	1348.0
47.5°	5468.4	2425.9	1386.2	1360.7	1343.7	1284.2	1248.0	1224.6	1245.9	1282.0	1290.6
50°	5228.1	2317.5	1322.4	1273.5	1237.4	1211.9	1186.4	1163.0	1177.9	1203.4	1197.0
52.5°	4873.1	2147.4	1241.7	1190.6	1129.0	1135.3	1112.0	1099.2	1107.7	1107.7	1101.3
55°	4367.0	1764.7	1105.6	1069.4	1018.4	1035.4	1039.7	1022.7	1005.7	1020.5	1007.8
57.5°	2980.8	1245.9	986.5	986.5	935.5	958.9	956.8	916.4	876.0	880.2	871.7
60°	1724.3	992.9	910.0	901.5	848.3	867.5	871.7	844.1	782.4	786.7	778.2
62.5°	980.1	848.3	795.2	782.4	771.8	788.8	788.8	752.6	699.5	703.7	695.2
65°	833.4	786.7	710.1	708.0	703.7	708.0	691.0	652.7	605.9	586.8	588.9
67.5°	756.9	727.1	652.7	633.6	620.8	618.7	586.8	550.7	529.4	512.4	510.3
70°	663.3	640.0	584.7	559.2	546.4	516.6	484.8	461.4	431.6	423.1	431.6
72.5°	525.2	523.0	501.8	474.1	446.5	423.1	395.5	363.6	335.9	329.5	314.7
75°	363.6	367.8	372.1	367.8	344.4	314.7	282.8	257.3	223.2	204.1	199.9
77.5°	238.1	244.5	250.9	242.4	227.5	199.9	178.6	146.7	121.2	106.3	104.2
80°	174.3	182.8	187.1	180.7	163.7	142.4	119.1	93.5	74.4	61.7	61.7
82.5°	133.9	142.4	146.7	136.1	119.1	102.1	85.0	65.9	51.0	40.4	38.3
85°	46.8	44.6	53.2	55.3	65.9	61.7	51.0	38.3	29.8	21.3	19.1
87.5°	12.8	12.8	14.9	14.9	12.8	10.6	10.6	10.6	8.5	6.4	6.4
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)