

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: P528202

Luminaire Tested: **GALN-SA3B-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528202  
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-SA3B-735-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 800mA 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: 14279 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

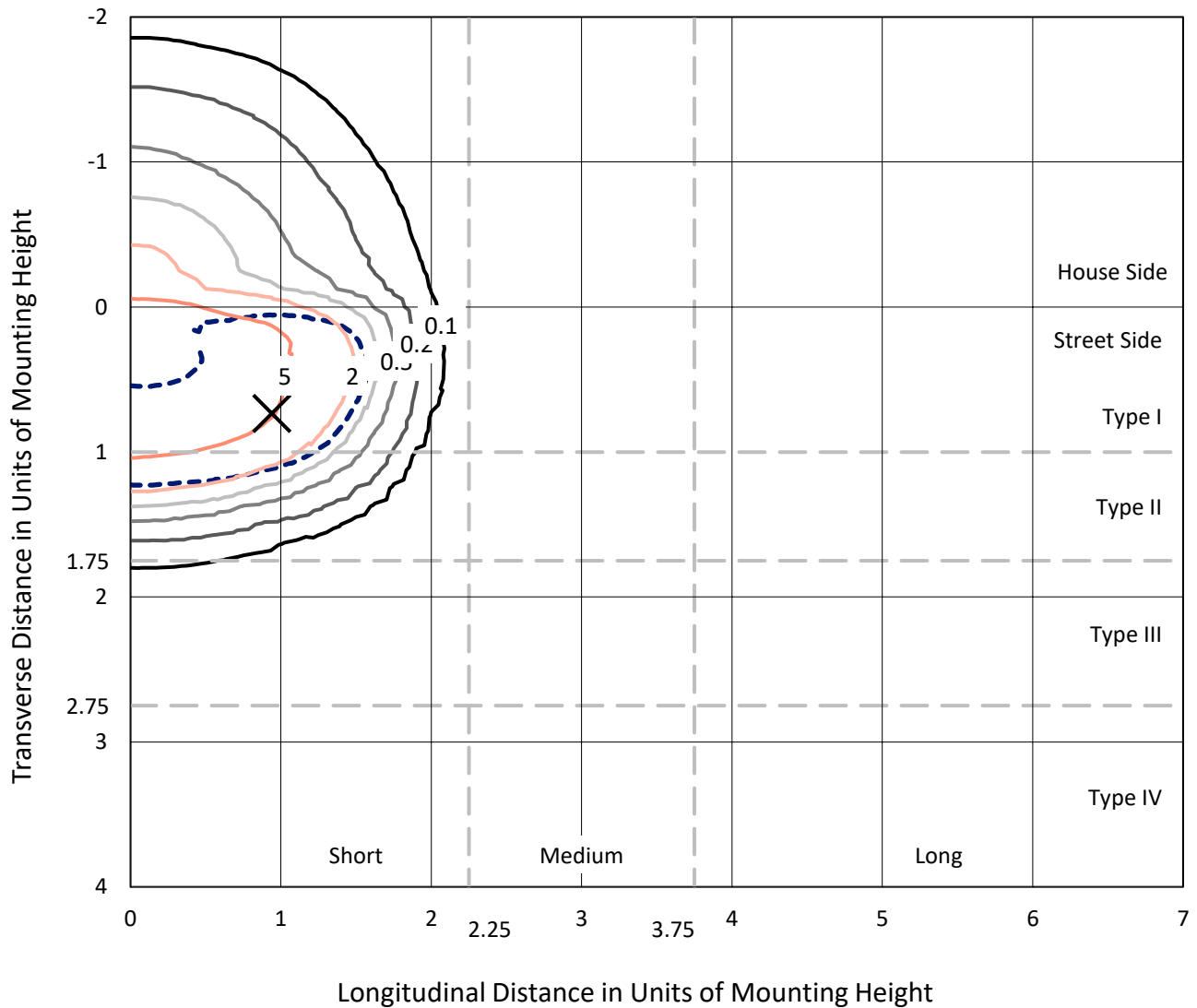
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

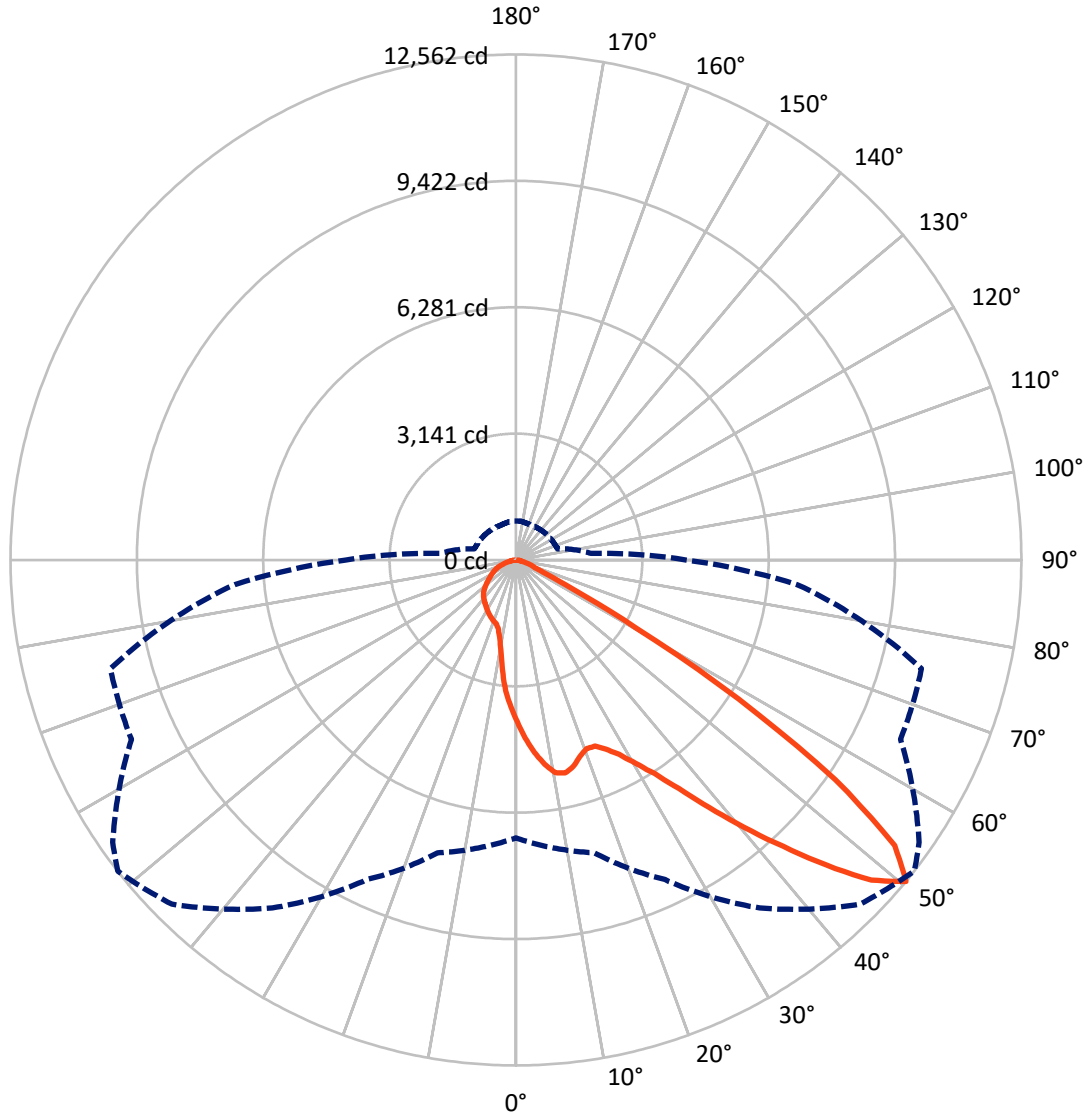
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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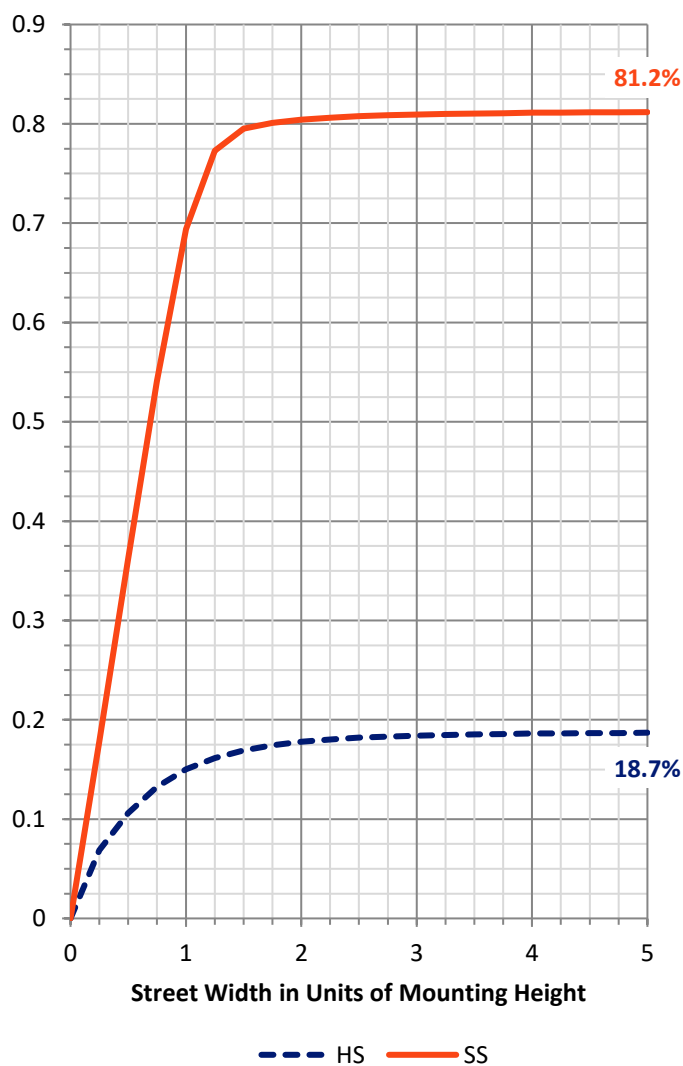
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2684.1	0.0	2684.1
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	11594.9	0.0	11594.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	14279.0	0.0	14279.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.0	2.6
10°-20°	994.3	7.0
20°-30°	1674.9	11.7
30°-40°	2810.6	19.7
40°-50°	4299.6	30.1
50°-60°	3134.8	22.0
60°-70°	697.6	4.9
70°-80°	251.6	1.8
80°-90°	44.5	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°	14279.0	100.0
0°-180°	14279.0	100.0

**Coefficient of Utilization**



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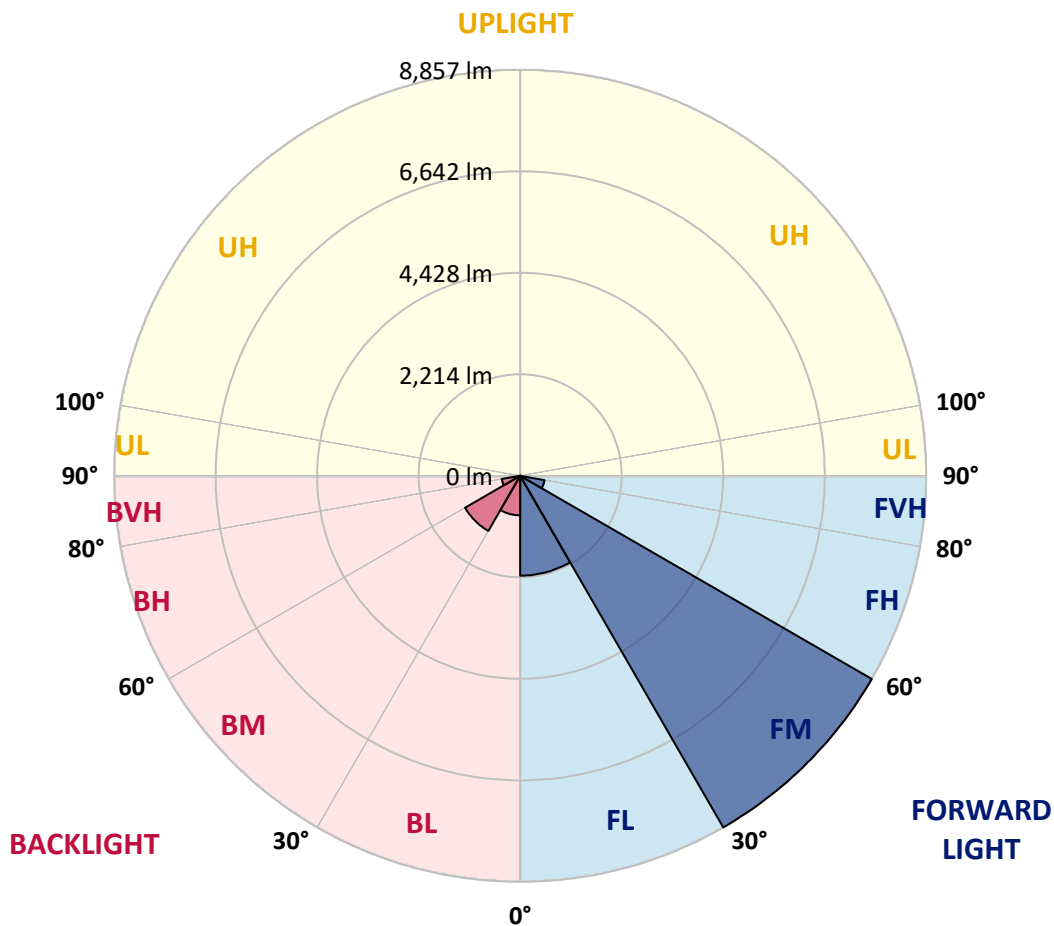
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2178.0	15.3			
FM (30°-60°)	8856.6	62.0			
FH (60°-80°)	540.3	3.8			G0/660
FVH (80°-90°)	20.0	0.1			G1/100
BL (0°-30°)	862.2	6.0	B2/1000		
BM (30°-60°)	1388.4	9.7	B2/2500		
BH (60°-80°)	408.9	2.9	B1/500		G1/500
BVH (80°-90°)	24.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0
2.5°	4739.2	4648.0	4658.3	4592.9	4522.3	4501.7	4429.4	4360.6	4308.9	4198.8	4097.3
5°	5179.7	5152.2	5110.9	5059.2	5005.9	4875.1	4801.1	4715.1	4525.8	4355.4	4186.8
7.5°	5243.4	5238.2	5260.6	5260.6	5279.5	5229.6	5124.6	5064.4	4863.1	4586.0	4272.8
10°	4795.9	4811.4	4919.8	5061.0	5257.1	5393.1	5375.9	5360.4	5140.1	4761.5	4374.3
12.5°	4439.7	4405.3	4469.0	4589.4	4883.7	5212.4	5434.4	5436.1	5379.3	5042.0	4448.3
15°	4238.4	4262.5	4279.7	4336.5	4558.5	4938.8	5329.4	5444.7	5694.2	5239.9	4565.4
17.5°	4367.5	4286.6	4283.1	4296.9	4410.5	4696.1	5134.9	5332.8	5866.3	5494.6	4709.9
20°	4536.1	4534.4	4486.2	4469.0	4467.3	4721.9	5007.6	5276.1	5957.5	5825.0	4856.2
22.5°	4832.1	4832.1	4752.9	4715.1	4634.2	4842.4	5024.8	5207.2	6108.9	6052.1	4926.7
25°	5327.7	5246.8	5110.9	5017.9	4971.5	5045.5	5207.2	5370.7	6241.4	6293.1	5073.0
27.5°	5785.4	5658.1	5591.0	5430.9	5369.0	5326.0	5473.9	5639.1	6396.3	6668.2	5152.2
30°	6305.1	6282.7	6162.3	5955.8	5802.6	5723.5	5859.4	6022.9	6680.2	7051.9	5334.6
32.5°	7234.4	7031.3	6867.8	6614.9	6365.3	6196.7	6330.9	6439.3	7151.8	7452.9	5534.2
35°	8237.6	8172.2	7890.0	7434.0	7051.9	6900.5	6979.7	7060.6	7700.7	8065.5	5869.7
37.5°	9223.6	9134.1	8901.8	8518.1	8053.5	7745.4	7802.2	7896.9	8316.8	8891.5	6279.3
40°	9932.6	9822.5	9705.5	9648.7	9187.5	8765.9	8733.2	8757.3	9149.6	9665.9	6733.6
42.5°	9984.2	10120.2	10156.3	10385.2	10276.8	9930.9	9729.6	9734.7	9944.7	10431.7	7193.1
45°	9875.8	9750.2	10016.9	10641.6	10999.5	11161.3	10822.3	10779.3	10436.8	10875.6	7421.9
47.5°	8738.4	8772.8	9223.6	10211.4	11245.6	11968.3	11889.2	11746.4	10700.1	10860.1	7385.8
50°	6907.4	7115.6	7533.8	8764.2	10557.3	12095.7	12562.0	12231.6	10543.5	10433.4	7017.5
52.5°	4599.8	4685.8	4961.1	6549.5	8488.8	10812.0	11787.7	11863.4	10399.0	9874.1	6551.2
55°	2047.8	2040.9	2428.1	3421.0	5326.0	8227.3	9631.5	10092.6	9843.1	9304.5	6096.9
57.5°	867.3	896.6	1054.9	1478.2	2619.1	4964.6	6525.4	6929.8	7569.9	7640.5	4677.2
60°	586.8	590.2	633.3	740.0	1096.2	2331.7	3422.7	3908.0	4365.7	4334.8	2481.4
62.5°	461.2	473.2	505.9	548.9	650.5	1058.3	1531.5	1801.7	1831.0	1540.1	941.3
65°	394.1	395.8	428.5	464.6	509.4	616.1	738.2	752.0	760.6	733.1	691.8
67.5°	325.2	328.7	354.5	395.8	437.1	471.5	505.9	523.1	562.7	640.1	629.8
70°	258.1	263.3	285.7	320.1	357.9	378.6	421.6	437.1	473.2	533.5	557.5
72.5°	196.2	197.9	216.8	240.9	275.3	296.0	332.1	349.3	373.4	425.0	447.4
75°	141.1	146.3	160.0	172.1	177.2	191.0	225.4	244.4	278.8	301.1	302.9
77.5°	74.0	77.4	80.9	80.9	98.1	123.9	146.3	156.6	180.7	197.9	189.3
80°	29.3	31.0	39.6	53.3	68.8	89.5	105.0	110.1	130.8	141.1	146.3
82.5°	17.2	18.9	25.8	37.9	49.9	63.7	75.7	80.9	94.6	106.7	110.1
85°	8.6	10.3	15.5	24.1	32.7	39.6	37.9	36.1	36.1	34.4	36.1
87.5°	3.4	3.4	5.2	5.2	5.2	6.9	8.6	8.6	8.6	10.3	10.3
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°	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0	4025.0
2.5°	4030.2	3961.3	3897.7	3780.7	3653.3	3617.2	3469.2	3415.8	3378.0	3333.2	3319.5
5°	4050.8	3959.6	3754.8	3519.1	3331.5	3090.6	2932.3	2761.9	2638.0	2607.1	2598.4
7.5°	4093.8	3937.3	3584.5	3228.3	2844.5	2517.6	2268.0	2133.8	2015.1	2008.2	1996.2
10°	4142.0	3870.1	3398.6	2839.4	2348.9	2046.1	1896.4	1837.8	1808.6	1801.7	1798.3
12.5°	4181.6	3856.4	3190.4	2460.8	1997.9	1815.5	1770.7	1765.6	1777.6	1781.1	1787.9
15°	4198.8	3801.3	2939.2	2121.8	1779.3	1712.2	1731.2	1751.8	1760.4	1782.8	1765.6
17.5°	4231.5	3730.8	2629.4	1853.3	1657.2	1669.2	1701.9	1726.0	1739.8	1755.2	1732.9
20°	4248.7	3667.1	2338.6	1693.3	1614.1	1636.5	1681.2	1700.2	1717.4	1724.3	1698.5
22.5°	4233.2	3536.3	2082.2	1564.2	1572.8	1602.1	1641.7	1662.3	1652.0	1624.5	1609.0
25°	4191.9	3352.2	1815.5	1481.6	1514.3	1566.0	1596.9	1581.4	1562.5	1547.0	1541.9
27.5°	4190.2	3126.7	1622.7	1405.9	1464.4	1535.0	1524.7	1510.9	1519.5	1507.4	1493.7
30°	4198.8	2908.2	1464.4	1362.9	1428.3	1462.7	1474.7	1461.0	1471.3	1448.9	1455.8
32.5°	4154.1	2694.8	1361.2	1313.0	1385.3	1383.5	1423.1	1433.4	1409.4	1362.9	1369.8
35°	4173.0	2522.7	1273.4	1290.6	1337.1	1337.1	1368.1	1356.0	1292.3	1264.8	1271.7
37.5°	4303.8	2354.1	1230.4	1259.6	1290.6	1304.4	1294.1	1242.4	1226.9	1226.9	1230.4
40°	4427.7	2209.5	1204.6	1252.8	1247.6	1256.2	1180.5	1185.6	1185.6	1187.4	1178.8
42.5°	4537.8	2111.5	1183.9	1211.5	1220.1	1175.3	1128.9	1123.7	1135.7	1134.0	1127.1
45°	4577.4	2030.6	1154.7	1165.0	1171.9	1097.9	1075.5	1065.2	1079.0	1084.1	1091.0
47.5°	4426.0	1963.5	1122.0	1101.3	1087.6	1039.4	1010.1	991.2	1008.4	1037.7	1044.5
50°	4231.5	1875.7	1070.4	1030.8	1001.5	980.9	960.2	941.3	953.3	974.0	968.8
52.5°	3944.1	1738.0	1005.0	963.7	913.8	918.9	900.0	889.7	896.6	896.6	891.4
55°	3534.6	1428.3	894.8	865.6	824.3	838.0	841.5	827.7	814.0	826.0	815.7
57.5°	2412.6	1008.4	798.5	798.5	757.2	776.1	774.4	741.7	709.0	712.4	705.5
60°	1395.6	803.6	736.5	729.6	686.6	702.1	705.5	683.2	633.3	636.7	629.8
62.5°	793.3	686.6	643.6	633.3	624.7	638.4	638.4	609.2	566.2	569.6	562.7
65°	674.6	636.7	574.8	573.0	569.6	573.0	559.3	528.3	490.4	474.9	476.7
67.5°	612.6	588.5	528.3	512.8	502.5	500.8	474.9	445.7	428.5	414.7	413.0
70°	536.9	518.0	473.2	452.6	442.3	418.2	392.3	373.4	349.3	342.4	349.3
72.5°	425.0	423.3	406.1	383.7	361.4	342.4	320.1	294.3	271.9	266.7	254.7
75°	294.3	297.7	301.1	297.7	278.8	254.7	228.9	208.2	180.7	165.2	161.8
77.5°	192.7	197.9	203.1	196.2	184.1	161.8	144.5	118.7	98.1	86.0	84.3
80°	141.1	148.0	151.4	146.3	132.5	115.3	96.4	75.7	60.2	49.9	49.9
82.5°	108.4	115.3	118.7	110.1	96.4	82.6	68.8	53.3	41.3	32.7	31.0
85°	37.9	36.1	43.0	44.7	53.3	49.9	41.3	31.0	24.1	17.2	15.5
87.5°	10.3	10.3	12.0	12.0	10.3	8.6	8.6	8.6	6.9	5.2	5.2
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)