

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: P529813

Luminaire Tested: **GALN-SA5A-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529813  
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-SA5A-730-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA 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: 15559 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

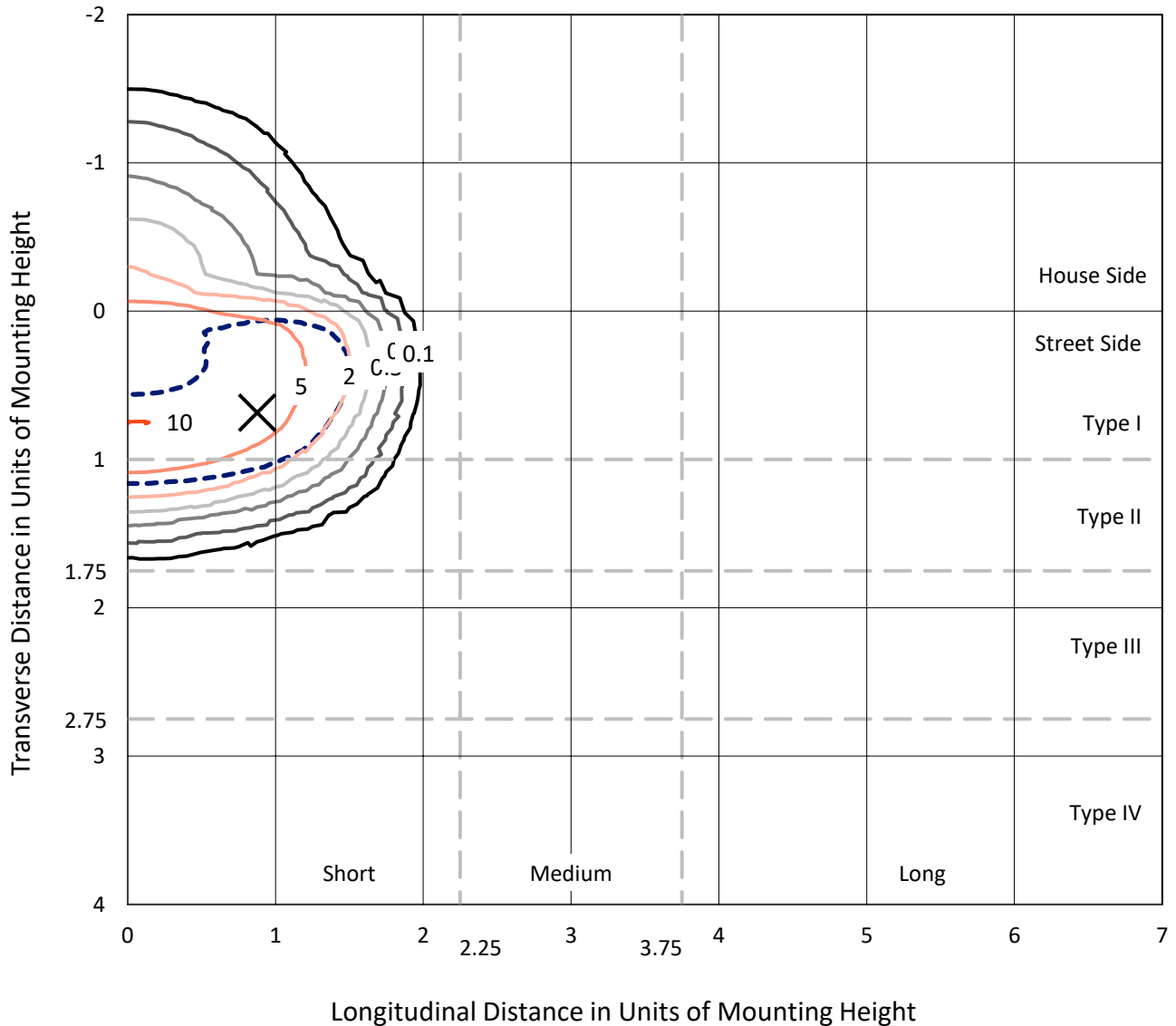
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

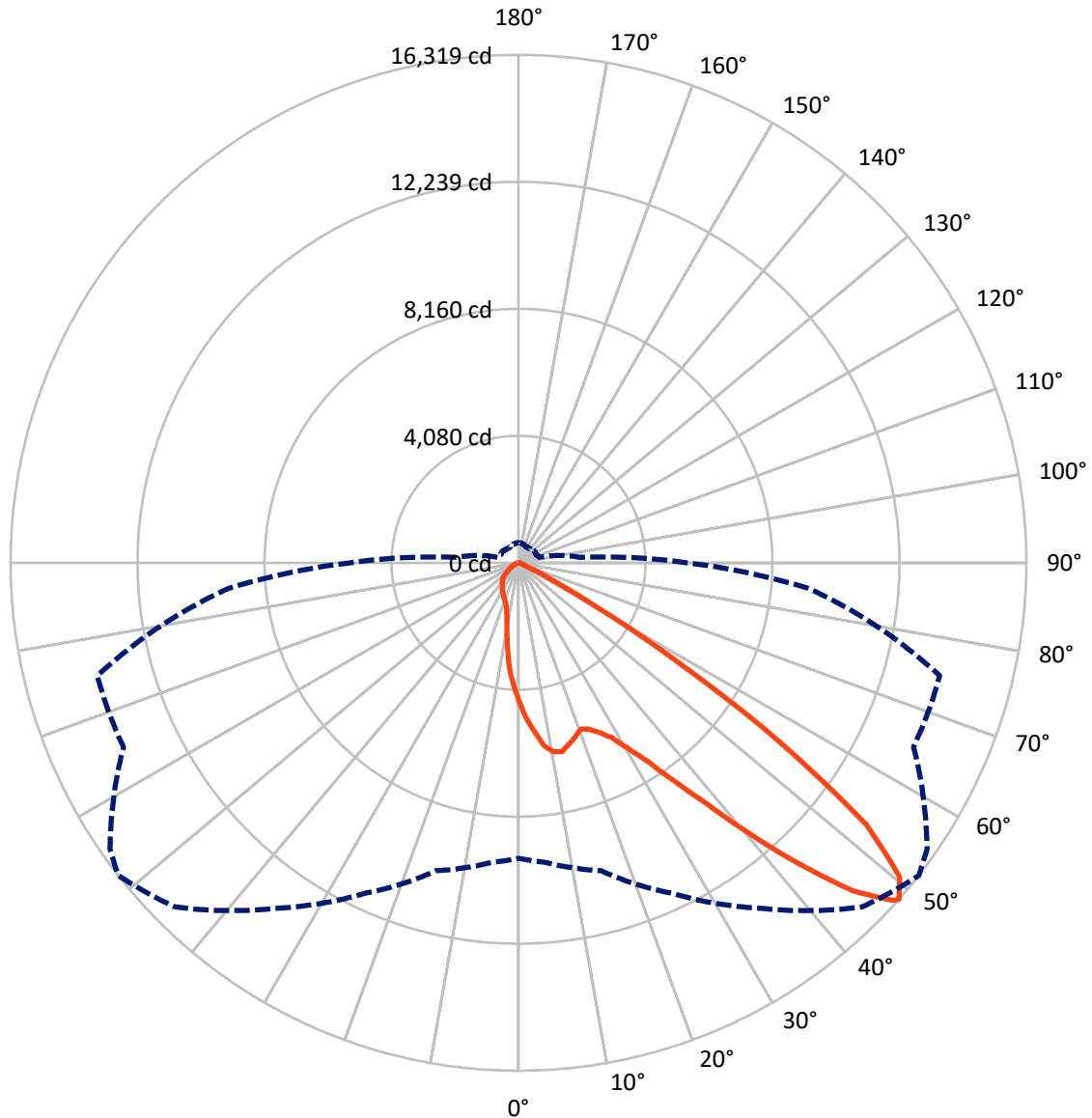
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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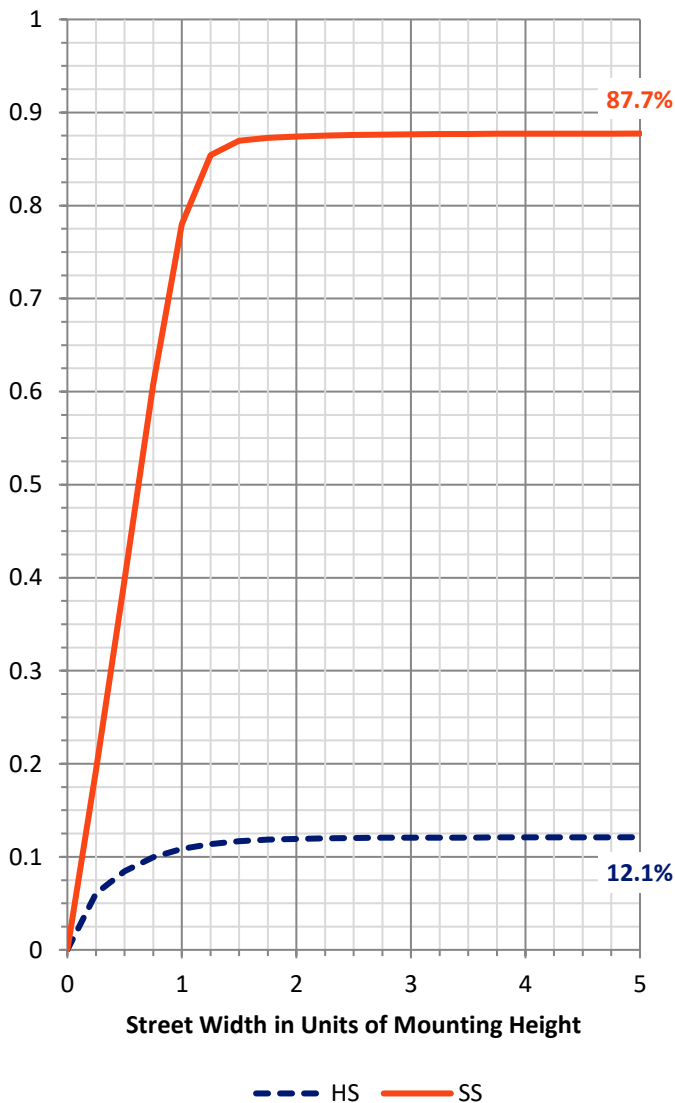
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1894.4	0.0	1894.4
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	13664.6	0.0	13664.6
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	15559.0	0.0	15559.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.3	2.6
10°-20°	1074.8	6.9
20°-30°	1835.0	11.8
30°-40°	3379.2	21.7
40°-50°	5248.0	33.7
50°-60°	3158.4	20.3
60°-70°	365.3	2.3
70°-80°	70.7	0.5
80°-90°	16.3	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°	15559.0	100.0
0°-180°	15559.0	100.0

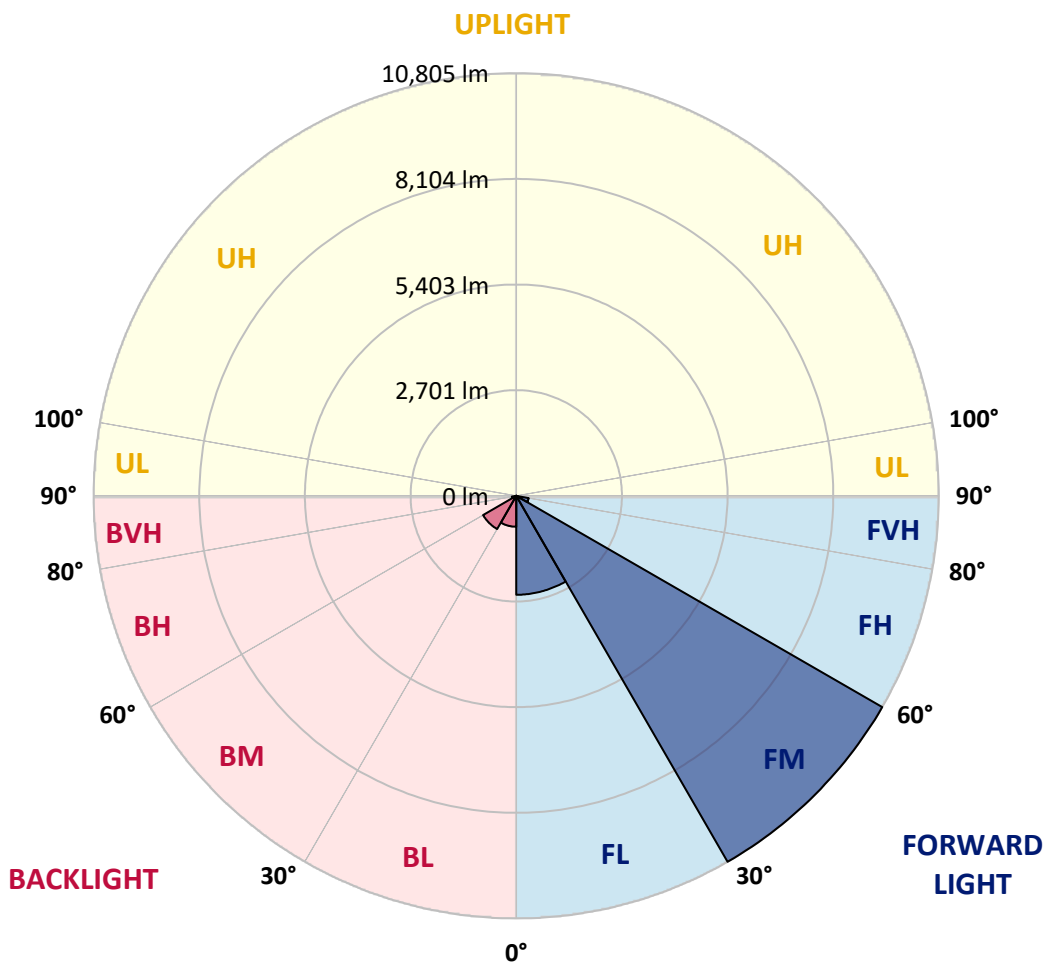


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2529.7	16.3			
FM (30°-60°)	10805.4	69.4			
FH (60°-80°)	321.7	2.1			G0/660
FVH (80°-90°)	7.8	0.1			G0/10
BL (0°-30°)	791.4	5.1	B2/1000		
BM (30°-60°)	980.2	6.3	B1/1000		
BH (60°-80°)	114.3	0.7	B1/500		G1/500
BVH (80°-90°)	8.6	0.1			G0/10
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°	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2
2.5°	5445.8	5321.1	5332.4	5250.7	5203.1	5126.0	5021.7	5001.2	4887.8	4733.6	4577.1
5°	5935.7	5906.2	5944.8	5826.8	5831.4	5704.4	5459.4	5463.9	5203.1	4951.3	4708.7
7.5°	5967.5	5899.4	5938.0	6042.3	6103.6	6080.9	5942.5	5822.3	5575.1	5205.4	4851.5
10°	5343.7	5473.0	5513.8	5686.2	5931.2	6189.7	6173.9	6180.7	5974.3	5491.2	4974.0
12.5°	4969.5	4883.3	5021.7	5126.0	5495.7	5997.0	6226.0	6275.9	6291.8	5767.9	5096.5
15°	4799.4	4799.4	4822.1	4851.5	5119.2	5581.9	6049.1	6194.3	6536.8	6130.8	5289.3
17.5°	4906.0	4901.4	4933.2	4872.0	4971.8	5327.9	5885.8	6051.4	6811.2	6486.9	5441.3
20°	5230.3	5246.2	5225.8	5048.9	5055.7	5323.3	5704.4	5965.2	6997.2	6795.3	5643.1
22.5°	5681.7	5690.8	5575.1	5382.3	5325.6	5457.1	5808.7	6008.3	7146.9	7165.0	5704.4
25°	6203.4	6167.1	6144.4	5872.2	5699.8	5813.2	6044.6	6160.3	7239.9	7482.6	5879.0
27.5°	6926.9	6854.3	6716.0	6473.3	6346.2	6185.2	6350.8	6541.3	7505.3	7927.1	6069.5
30°	7995.2	7931.7	7661.8	7348.8	7015.3	6856.6	6908.7	7013.1	7983.8	8442.0	6321.3
32.5°	9603.3	9469.5	9079.4	8482.8	8029.2	7591.5	7577.8	7689.0	8412.5	9154.2	6620.7
35°	11374.7	11333.9	10760.0	10145.4	9267.6	8591.7	8603.0	8662.0	9233.6	10088.7	7013.1
37.5°	12551.9	12776.4	12411.2	11751.2	11014.1	10047.8	9802.9	9823.3	10360.9	11195.5	7720.7
40°	13461.4	13270.9	13314.0	13159.7	12656.2	11998.4	11456.4	11349.8	11665.0	12420.3	8423.9
42.5°	13064.5	13073.5	13338.9	13704.1	13828.8	13781.2	13227.8	13025.9	12781.0	13422.8	9093.0
45°	11944.0	12177.6	12522.4	13488.6	14336.9	15133.0	15024.1	14688.5	13552.1	14216.7	9478.5
47.5°	10156.7	10147.6	10712.4	11969.0	13853.8	15718.2	16212.6	15976.8	14098.7	14128.2	9399.2
48°	9496.7	9660.0	10242.9	11721.7	13547.6	15632.0	16319.3	16022.1	14005.8	14010.3	9331.1
50°	7019.9	6990.4	7716.2	9530.7	12100.5	14688.5	15870.2	16101.5	14003.5	13413.8	8854.8
52.5°	3708.4	3835.4	4363.9	5992.4	8555.4	12021.1	13998.9	14359.6	13509.0	12438.5	8169.8
55°	1576.4	1424.4	1830.4	2705.9	4813.0	8031.5	10270.1	11073.0	11422.3	11007.3	7146.9
57.5°	562.5	614.7	707.7	1018.4	2023.2	4395.7	6124.0	6747.7	7913.5	8076.8	4869.7
60°	360.6	367.4	396.9	467.2	759.8	1694.3	2905.5	3402.2	3930.7	4057.7	2272.7
62.5°	279.0	281.2	294.9	306.2	360.6	657.8	1091.0	1292.8	1342.7	1154.5	596.5
65°	233.6	235.9	240.4	240.4	256.3	308.5	381.0	419.6	408.3	403.7	338.0
67.5°	179.2	183.7	192.8	192.8	201.9	188.3	210.9	224.5	254.0	308.5	288.1
70°	140.6	142.9	149.7	154.2	154.2	136.1	152.0	165.6	186.0	229.1	226.8
72.5°	108.9	113.4	117.9	117.9	111.1	93.0	108.9	120.2	133.8	158.8	154.2
75°	83.9	83.9	86.2	70.3	54.4	47.6	65.8	79.4	99.8	104.3	86.2
77.5°	22.7	24.9	22.7	20.4	22.7	34.0	43.1	49.9	63.5	63.5	56.7
80°	0.0	2.3	6.8	13.6	22.7	31.8	38.6	43.1	49.9	54.4	52.2
82.5°	0.0	2.3	6.8	13.6	20.4	24.9	34.0	36.3	40.8	47.6	47.6
85°	0.0	2.3	4.5	9.1	13.6	15.9	15.9	13.6	13.6	11.3	9.1
87.5°	0.0	0.0	2.3	4.5	4.5	6.8	6.8	6.8	6.8	6.8	6.8
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°	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2	4493.2
2.5°	4515.9	4445.5	4338.9	4171.1	4010.1	3905.7	3805.9	3694.8	3633.6	3629.0	3595.0
5°	4570.3	4411.5	4157.5	3869.4	3561.0	3295.6	3028.0	2853.3	2696.8	2610.6	2594.7
7.5°	4599.8	4393.4	3982.8	3499.7	2973.5	2540.3	2240.9	2020.9	1934.7	1871.2	1868.9
10°	4661.0	4361.6	3722.0	3009.8	2358.9	1921.1	1714.7	1614.9	1567.3	1549.1	1521.9
12.5°	4706.4	4302.7	3454.4	2506.3	1864.4	1592.2	1501.5	1478.8	1481.1	1490.2	1478.8
15°	4769.9	4250.5	3093.7	2057.2	1565.0	1433.5	1433.5	1438.0	1469.8	1474.3	1472.0
17.5°	4765.4	4148.4	2721.8	1694.3	1383.6	1365.4	1372.2	1415.3	1435.7	1442.5	1426.7
20°	4819.8	4053.2	2338.4	1447.1	1281.5	1308.7	1354.1	1365.4	1390.4	1394.9	1376.8
22.5°	4803.9	3815.0	1982.4	1252.0	1204.4	1256.5	1301.9	1315.5	1308.7	1295.1	1292.8
25°	4774.4	3610.9	1655.7	1122.7	1147.7	1204.4	1247.5	1222.5	1208.9	1211.2	1213.5
27.5°	4722.3	3352.3	1385.8	1032.0	1070.6	1154.5	1152.2	1143.1	1156.8	1145.4	1156.8
30°	4713.2	3093.7	1163.6	950.3	1013.9	1075.1	1079.6	1095.5	1111.4	1091.0	1111.4
32.5°	4726.8	2810.2	1004.8	900.5	979.8	982.1	1032.0	1047.9	1036.5	991.2	995.7
35°	4831.1	2592.5	889.1	873.2	925.4	927.7	975.3	954.9	905.0	877.8	893.6
37.5°	5051.1	2411.0	834.7	848.3	852.8	882.3	884.6	843.7	848.3	846.0	855.1
40°	5332.4	2272.7	796.1	825.6	821.1	841.5	759.8	782.5	802.9	809.7	814.3
42.5°	5525.2	2172.9	771.2	789.3	780.2	743.9	698.6	721.3	737.1	762.1	766.6
45°	5611.4	2093.5	741.7	725.8	725.8	660.0	641.9	646.4	682.7	709.9	705.4
47.5°	5470.7	2016.4	689.5	641.9	657.8	603.3	582.9	582.9	621.5	655.5	648.7
48°	5416.3	1984.6	691.8	623.7	635.1	594.3	573.8	569.3	612.4	644.2	644.2
50°	5146.4	1866.7	632.8	573.8	551.2	546.6	533.0	537.5	564.8	594.3	594.3
52.5°	4620.2	1612.6	535.3	492.2	451.4	478.6	485.4	476.3	489.9	517.1	514.9
55°	3855.8	1238.4	428.7	408.3	376.5	406.0	419.6	408.3	394.7	415.1	415.1
57.5°	2470.0	666.8	342.5	347.0	315.3	344.8	356.1	328.9	303.9	319.8	317.5
60°	1113.7	399.2	281.2	274.4	254.0	288.1	306.2	274.4	240.4	251.8	263.1
62.5°	417.3	283.5	213.2	208.7	204.1	235.9	245.0	220.0	186.0	192.8	195.1
65°	306.2	249.5	170.1	154.2	163.3	186.0	181.5	156.5	133.8	133.8	138.4
67.5°	260.8	217.7	138.4	120.2	120.2	122.5	113.4	99.8	93.0	97.5	102.1
70°	204.1	172.4	108.9	93.0	83.9	74.8	65.8	63.5	56.7	63.5	61.2
72.5°	131.6	115.7	83.9	70.3	63.5	52.2	43.1	40.8	34.0	31.8	31.8
75°	70.3	70.3	65.8	56.7	49.9	40.8	34.0	27.2	18.1	13.6	13.6
77.5°	49.9	54.4	59.0	54.4	45.4	34.0	27.2	18.1	9.1	4.5	4.5
80°	47.6	54.4	59.0	52.2	45.4	34.0	24.9	13.6	6.8	2.3	2.3
82.5°	43.1	49.9	54.4	47.6	40.8	29.5	22.7	13.6	6.8	2.3	2.3
85°	9.1	11.3	13.6	13.6	15.9	20.4	15.9	11.3	4.5	2.3	2.3
87.5°	6.8	6.8	6.8	6.8	6.8	6.8	4.5	4.5	2.3	2.3	2.3
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)