

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: P528553

Luminaire Tested: **GALN-SA3C-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528553  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-827-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10204 lumens  
Efficiency: N/A  
Efficacy: 63.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G1

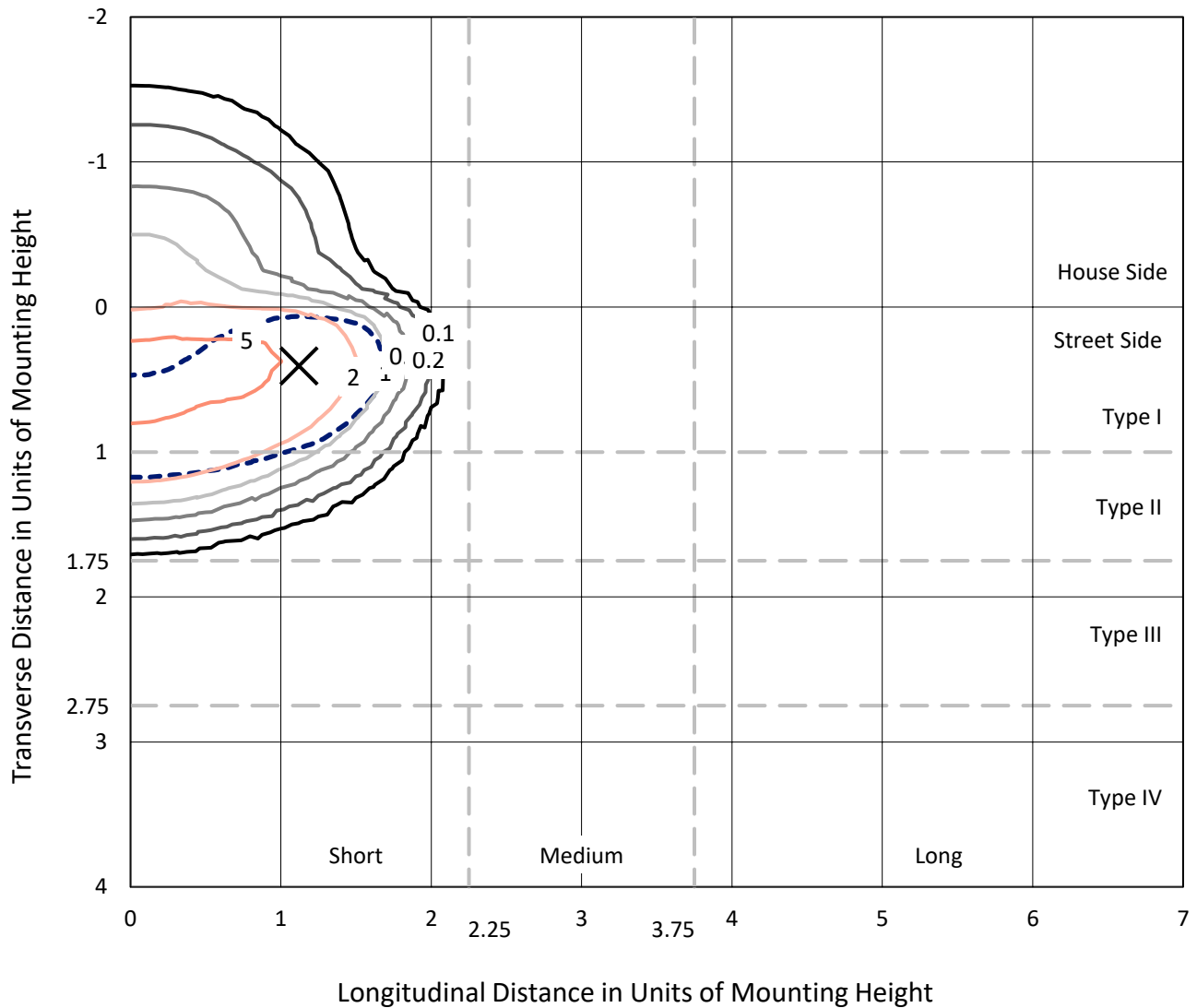
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

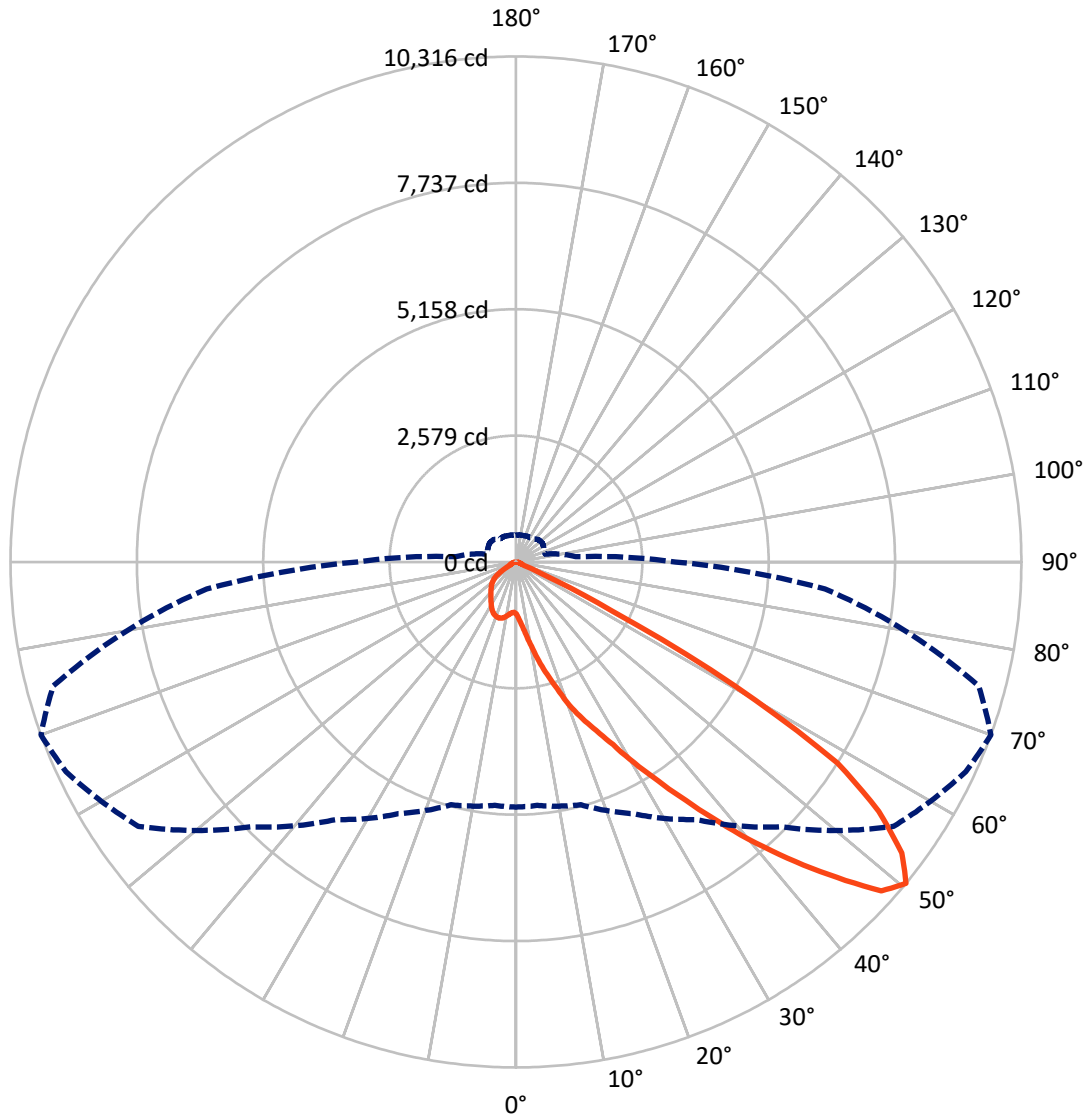
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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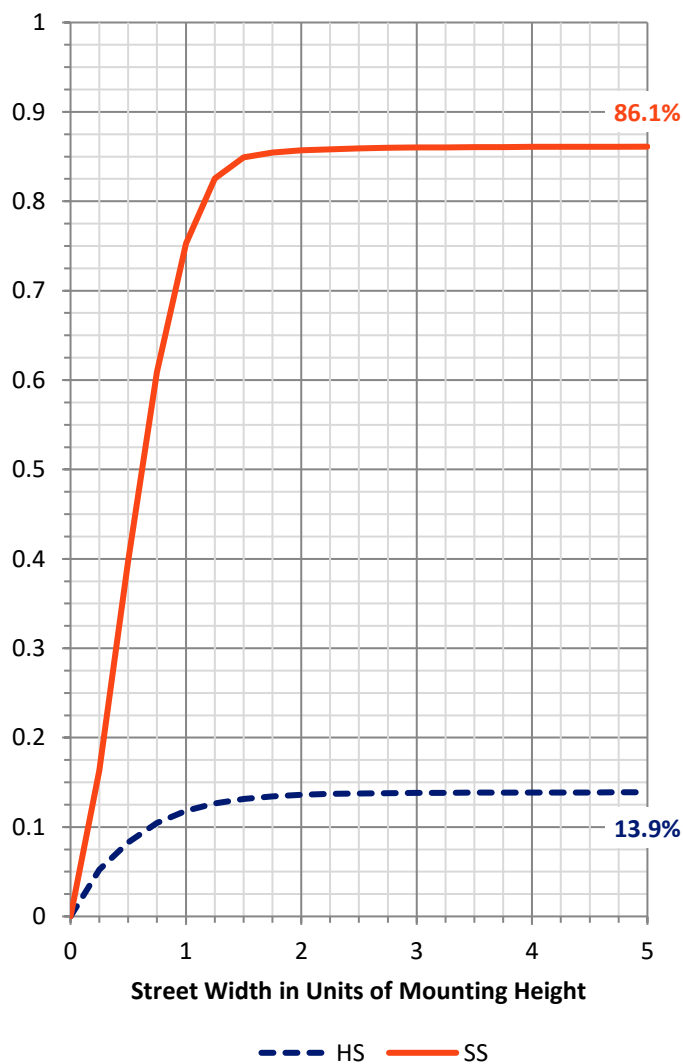
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1425.1	0.0	1425.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	8778.9	0.0	8778.9
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	10204.0	0.0	10204.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.4	1.3
10°-20°	594.5	5.8
20°-30°	1247.2	12.2
30°-40°	2149.7	21.1
40°-50°	3141.8	30.8
50°-60°	2447.0	24.0
60°-70°	414.6	4.1
70°-80°	57.0	0.6
80°-90°	14.8	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°	10204.0	100.0
0°-180°	10204.0	100.0

**Coefficient of Utilization**



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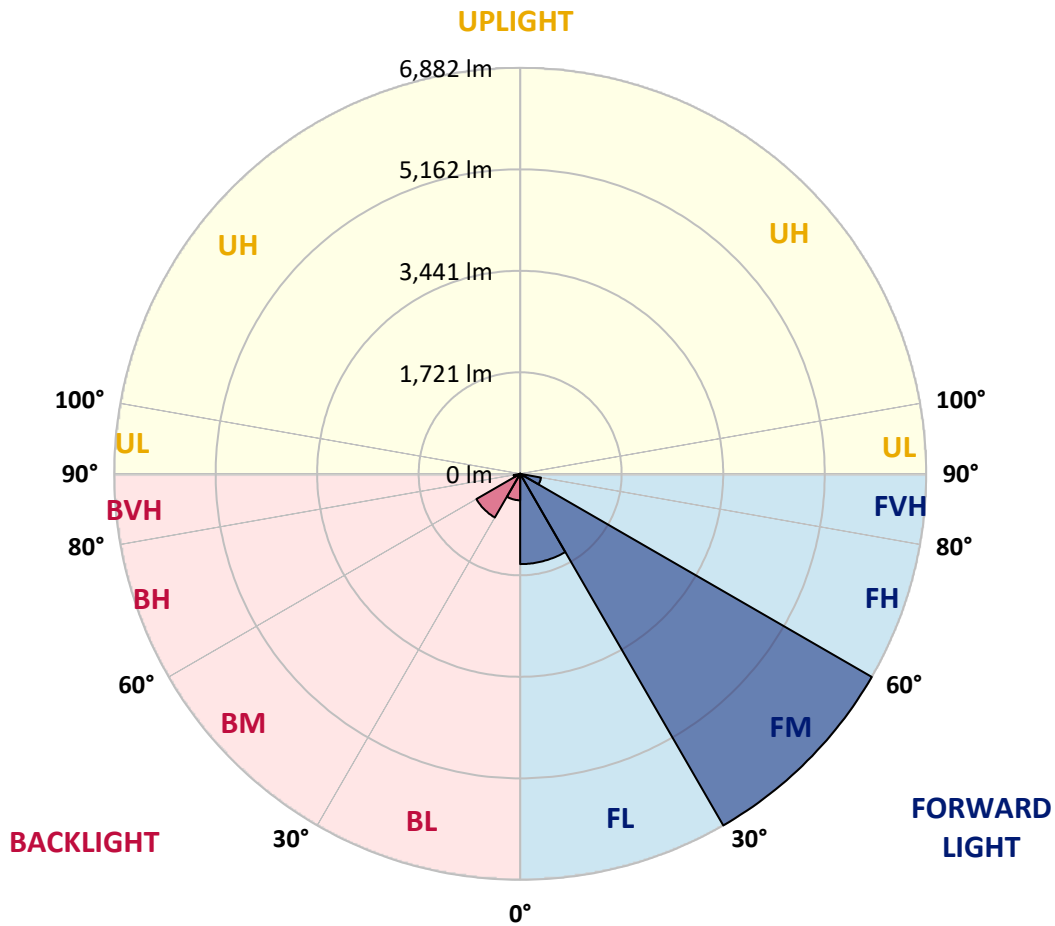
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1530.7	15.0			
FM (30°-60°)	6882.4	67.4			
FH (60°-80°)	359.0	3.5			G0/660
FVH (80°-90°)	6.8	0.1			G0/10
BL (0°-30°)	448.4	4.4	B1/500		
BM (30°-60°)	856.1	8.4	B1/1000		
BH (60°-80°)	112.6	1.1	B1/500		G1/500
BVH (80°-90°)	7.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9
2.5°	1384.1	1374.0	1352.2	1311.9	1295.2	1254.9	1231.4	1186.1	1157.6	1125.7	1090.5
5°	1949.5	1897.4	1865.6	1820.3	1687.7	1605.5	1469.6	1353.9	1300.2	1241.5	1160.9
7.5°	2533.3	2499.7	2456.1	2358.8	2268.2	2097.1	1863.9	1608.9	1499.8	1399.2	1239.8
10°	3016.5	2922.5	2917.5	2845.3	2746.3	2541.7	2261.5	1944.4	1749.8	1602.2	1352.2
12.5°	3353.7	3268.1	3306.7	3298.3	3206.0	3018.1	2694.3	2274.9	2071.9	1842.1	1468.0
15°	3660.7	3625.4	3613.7	3603.6	3566.7	3427.5	3137.2	2677.6	2384.0	2107.2	1598.8
17.5°	3961.0	3870.4	3914.0	3922.4	3919.0	3793.2	3521.4	3060.1	2714.5	2387.3	1736.4
20°	4227.7	4236.1	4177.4	4165.7	4155.6	4150.6	3885.5	3439.2	3120.5	2680.9	1915.9
22.5°	4570.0	4511.3	4563.3	4529.7	4464.3	4424.0	4221.0	3774.8	3472.8	3034.9	2098.8
25°	4974.3	5021.3	4898.8	4885.4	4813.2	4674.0	4491.1	4150.6	3811.7	3363.7	2296.7
27.5°	5472.6	5390.4	5358.5	5284.7	5153.8	5095.1	4880.3	4538.1	4221.0	3709.3	2488.0
30°	5900.4	5878.6	5719.2	5631.9	5517.9	5516.2	5215.9	5063.2	4754.5	4251.2	2751.4
32.5°	6249.3	6153.7	6095.0	6034.6	5942.3	5967.5	5714.2	5633.6	5323.3	4754.5	3061.8
35°	6482.5	6413.7	6378.5	6286.2	6259.4	6371.8	6266.1	6232.6	5977.5	5462.5	3425.8
37.5°	6556.3	6578.2	6571.4	6455.7	6512.7	6816.4	6952.3	6865.0	6730.8	6209.1	3820.1
40°	6621.8	6636.9	6603.3	6739.2	6901.9	7247.5	7739.1	7594.8	7544.5	6965.7	4368.7
42.5°	6658.7	6646.9	6646.9	6881.8	7128.4	7823.0	8499.1	8403.5	8364.9	7771.0	5002.8
45°	6499.3	6385.2	6507.7	6826.4	7323.0	8106.5	9106.4	9238.9	9183.6	8728.9	5744.3
47.5°	5903.7	5974.2	6043.0	6469.1	7086.5	8019.3	9478.8	9930.1	10032.5	9534.2	6230.9
50°	5002.8	4987.7	5130.3	5667.2	6417.1	7643.5	9406.7	10129.8	10316.0	9775.8	6333.2
52.5°	3638.9	3749.6	3903.9	4437.4	5326.6	6670.4	8475.6	9614.7	9863.0	9478.8	6266.1
55°	2118.9	1996.4	2343.7	2795.0	3633.8	5031.3	7165.3	8522.6	8982.3	8938.6	5927.2
57.5°	848.9	822.1	941.2	1268.3	1895.8	3118.8	5210.8	7002.6	7739.1	8187.0	5209.2
60°	372.4	364.1	427.8	516.7	775.1	1437.8	2850.4	4355.2	5123.6	5720.9	3585.2
62.5°	268.4	265.1	296.9	328.8	409.4	625.8	1197.9	1754.8	2187.7	2642.3	1605.5
65°	216.4	224.8	246.6	263.4	302.0	347.3	422.8	488.2	598.9	620.7	354.0
67.5°	176.2	182.9	203.0	221.5	228.2	187.9	194.6	171.1	171.1	152.7	122.5
70°	129.2	130.9	154.3	176.2	140.9	75.5	132.5	132.5	119.1	114.1	104.0
72.5°	95.6	97.3	115.8	109.0	55.4	47.0	97.3	107.4	97.3	92.3	83.9
75°	70.5	72.1	60.4	25.2	23.5	30.2	57.0	73.8	70.5	68.8	63.8
77.5°	13.4	10.1	8.4	11.7	16.8	25.2	36.9	45.3	47.0	50.3	47.0
80°	1.7	1.7	5.0	10.1	18.5	26.8	38.6	43.6	45.3	47.0	43.6
82.5°	0.0	1.7	5.0	10.1	18.5	25.2	33.6	38.6	41.9	43.6	41.9
85°	0.0	1.7	3.4	8.4	15.1	18.5	16.8	11.7	10.1	11.7	8.4
87.5°	0.0	0.0	1.7	1.7	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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°	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9
2.5°	1070.4	1063.6	1040.2	1015.0	993.2	1003.2	993.2	984.8	988.1	984.8	981.4
5°	1129.1	1098.9	1048.5	1026.7	1008.3	1006.6	1001.6	999.9	1001.6	1001.6	986.5
7.5°	1184.4	1135.8	1082.1	1058.6	1036.8	1038.5	1026.7	1026.7	1025.1	1016.7	1013.3
10°	1268.3	1202.9	1134.1	1092.2	1065.3	1060.3	1048.5	1036.8	1036.8	1036.8	1020.0
12.5°	1360.6	1278.4	1184.4	1135.8	1103.9	1078.7	1060.3	1056.9	1038.5	1035.1	1026.7
15°	1441.1	1337.1	1218.0	1150.9	1110.6	1077.1	1048.5	1030.1	1021.7	1016.7	1010.0
17.5°	1520.0	1387.4	1236.4	1150.9	1107.3	1068.7	1038.5	1021.7	1001.6	1004.9	991.5
20°	1625.7	1441.1	1241.5	1129.1	1075.4	1038.5	998.2	989.8	978.1	968.0	971.4
22.5°	1728.0	1479.7	1226.4	1102.2	1025.1	981.4	961.3	951.2	946.2	937.8	926.1
25°	1820.3	1521.6	1202.9	1053.6	971.4	939.5	921.0	919.4	907.6	907.6	885.8
27.5°	1914.2	1536.7	1162.6	996.5	924.4	905.9	897.6	894.2	889.2	877.4	862.3
30°	2021.6	1541.8	1103.9	937.8	882.5	862.3	874.1	882.5	860.6	838.8	845.5
32.5°	2110.5	1530.0	1033.4	882.5	852.3	842.2	865.7	874.1	848.9	825.4	813.7
35°	2217.9	1501.5	964.7	838.8	822.1	842.2	862.3	862.3	812.0	783.5	776.8
37.5°	2380.6	1469.6	900.9	801.9	790.2	832.1	859.0	840.5	761.7	726.4	718.0
40°	2555.1	1449.5	838.8	765.0	773.4	815.3	830.4	773.4	692.9	671.1	664.4
42.5°	2808.4	1409.2	783.5	733.1	758.3	791.9	791.9	689.5	659.3	647.6	645.9
45°	3123.8	1380.7	734.8	706.3	736.5	744.9	718.0	645.9	624.1	620.7	622.4
47.5°	3278.2	1325.4	684.5	674.4	696.2	697.9	627.4	610.7	592.2	587.2	583.8
50°	3254.7	1226.4	619.1	632.5	662.7	645.9	572.1	575.4	558.7	557.0	548.6
52.5°	3090.3	1070.4	553.6	585.5	619.1	570.4	526.8	523.4	523.4	501.6	493.2
55°	2739.6	862.3	474.8	515.0	555.3	479.8	468.1	464.7	456.3	436.2	431.2
57.5°	2169.2	632.5	357.3	401.0	471.4	407.7	406.0	390.9	369.1	354.0	354.0
60°	1290.1	364.1	224.8	244.9	312.0	330.5	367.4	360.7	323.8	300.3	293.6
62.5°	588.9	187.9	142.6	146.0	167.8	214.7	288.6	333.9	281.8	241.6	238.2
65°	198.0	139.2	117.4	112.4	115.8	129.2	172.8	236.6	224.8	186.2	179.5
67.5°	120.8	124.1	110.7	102.3	102.3	100.7	99.0	107.4	132.5	129.2	130.9
70°	104.0	114.1	102.3	92.3	88.9	83.9	70.5	58.7	50.3	58.7	62.1
72.5°	83.9	90.6	87.2	78.9	70.5	63.8	50.3	38.6	28.5	25.2	25.2
75°	62.1	67.1	70.5	60.4	53.7	45.3	36.9	25.2	15.1	10.1	10.1
77.5°	45.3	50.3	52.0	47.0	40.3	31.9	23.5	16.8	8.4	3.4	3.4
80°	38.6	45.3	50.3	47.0	41.9	30.2	21.8	11.7	6.7	1.7	1.7
82.5°	36.9	45.3	50.3	45.3	40.3	28.5	21.8	13.4	5.0	1.7	1.7
85°	8.4	11.7	15.1	18.5	21.8	21.8	16.8	10.1	5.0	1.7	1.7
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	1.7	1.7	0.0
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)