

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: P527461

Luminaire Tested: **GALN-SA2C-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527461  
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-SA2C-727-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 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**

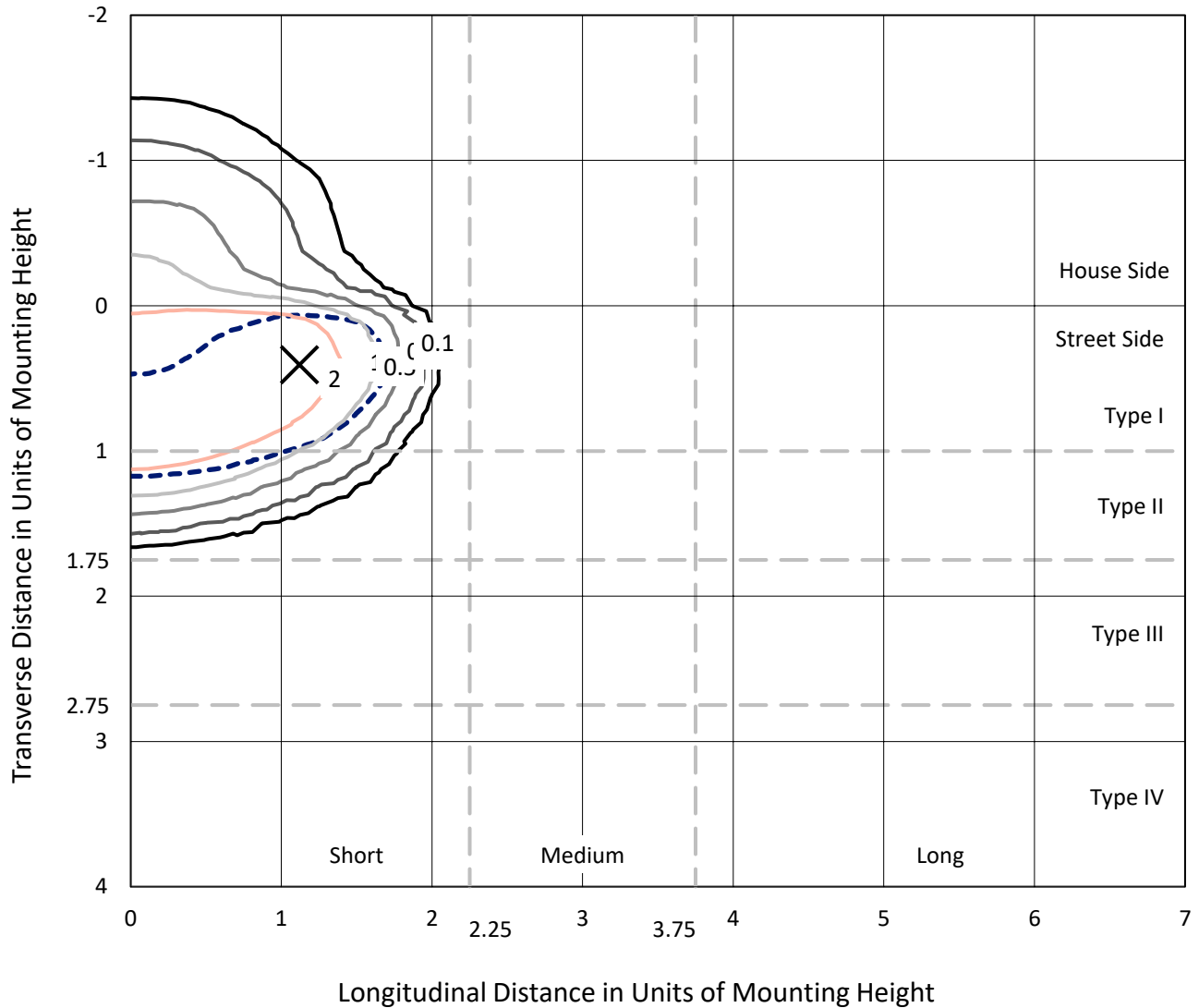
Lumens per Lamp: N/A  
Luminaire Lumens: 7820 lumens  
Efficiency: N/A  
Efficacy: 72.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

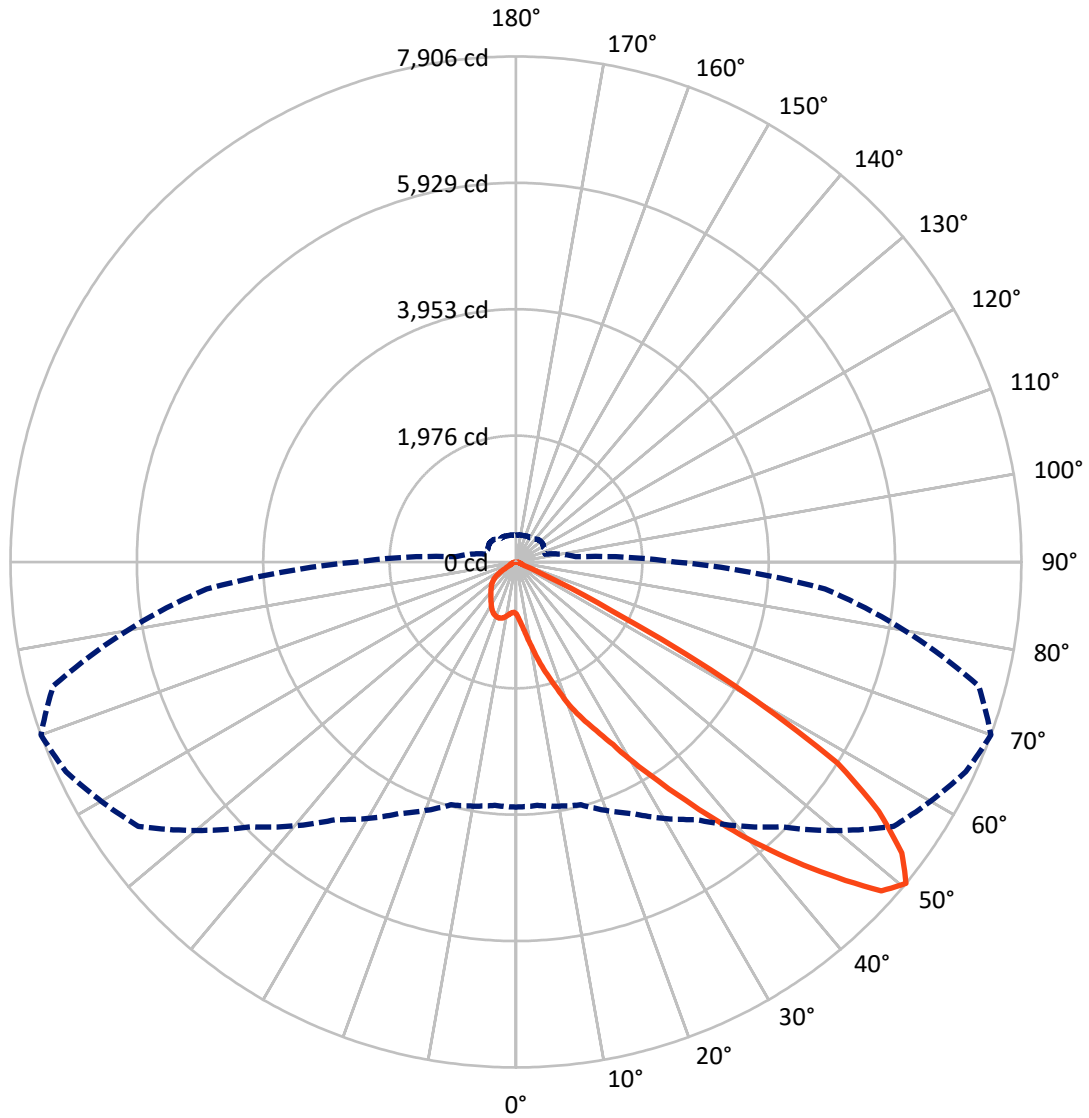
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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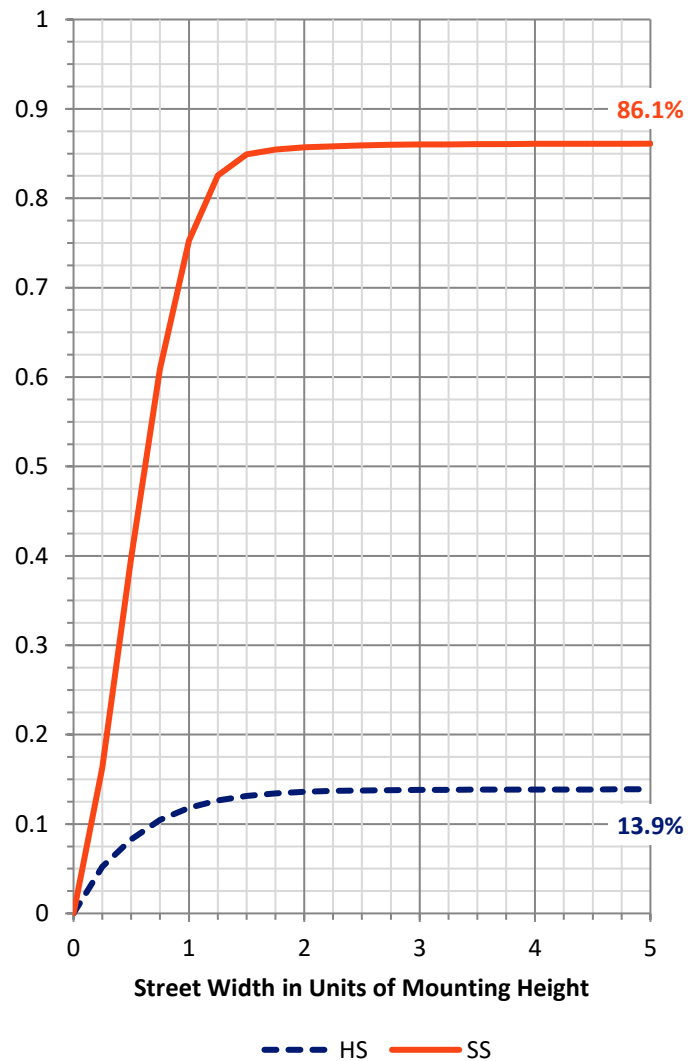
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1092.1	0.0	1092.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	6727.9	0.0	6727.9
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	7820.0	0.0	7820.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.3	1.3
10°-20°	455.6	5.8
20°-30°	955.8	12.2
30°-40°	1647.5	21.1
40°-50°	2407.8	30.8
50°-60°	1875.3	24.0
60°-70°	317.7	4.1
70°-80°	43.7	0.6
80°-90°	11.3	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°	7820.0	100.0
0°-180°	7820.0	100.0

**Coefficient of Utilization**



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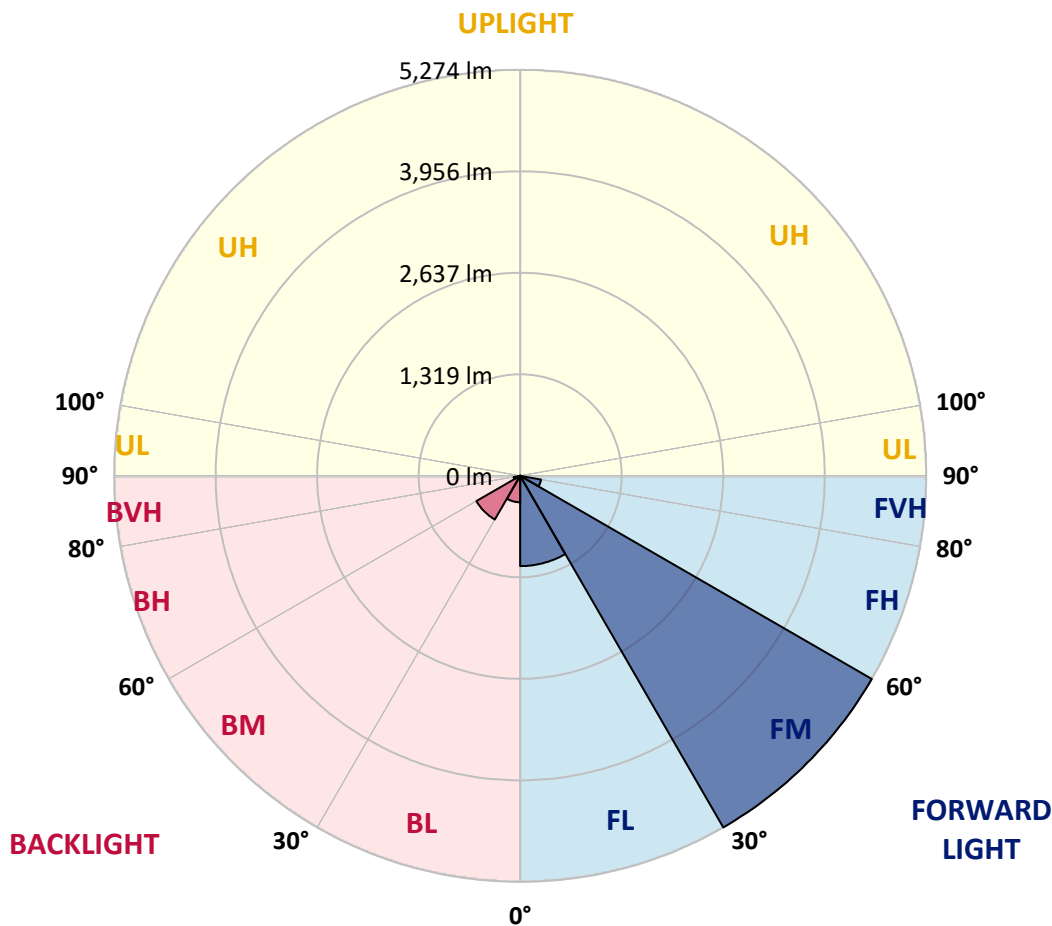
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1173.1	15.0			
FM (30°-60°)	5274.5	67.4			
FH (60°-80°)	275.1	3.5			G0/660
FVH (80°-90°)	5.2	0.1			G0/10
BL (0°-30°)	343.7	4.4	B1/500		
BM (30°-60°)	656.1	8.4	B1/1000		
BH (60°-80°)	86.3	1.1	B0/110		G0/110
BVH (80°-90°)	6.1	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-G0**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0
2.5°	1060.7	1053.0	1036.3	1005.4	992.6	961.7	943.7	909.0	887.1	862.7	835.7
5°	1494.0	1454.1	1429.7	1395.0	1293.4	1230.4	1126.3	1037.6	996.4	951.4	889.7
7.5°	1941.4	1915.7	1882.3	1807.7	1738.3	1607.1	1428.4	1233.0	1149.4	1072.3	950.1
10°	2311.7	2239.7	2235.9	2180.6	2104.7	1947.9	1733.1	1490.1	1341.0	1227.9	1036.3
12.5°	2570.1	2504.6	2534.1	2527.7	2457.0	2313.0	2064.9	1743.4	1587.9	1411.7	1125.0
15°	2805.4	2778.4	2769.4	2761.7	2733.4	2626.7	2404.3	2052.0	1827.0	1614.9	1225.3
17.5°	3035.6	2966.1	2999.6	3006.0	3003.4	2907.0	2698.7	2345.1	2080.3	1829.6	1330.7
20°	3240.0	3246.4	3201.4	3192.4	3184.7	3180.8	2977.7	2635.7	2391.4	2054.6	1468.3
22.5°	3502.3	3457.3	3497.1	3471.4	3421.3	3390.4	3234.8	2892.9	2661.4	2325.9	1608.4
25°	3812.1	3848.1	3754.3	3744.0	3688.7	3582.0	3441.8	3180.8	2921.1	2577.9	1760.1
27.5°	4194.0	4131.0	4106.6	4050.0	3949.7	3904.7	3740.1	3477.8	3234.8	2842.7	1906.7
30°	4521.8	4505.1	4383.0	4316.1	4228.7	4227.4	3997.3	3880.3	3643.7	3258.0	2108.6
32.5°	4789.3	4716.0	4671.0	4624.7	4554.0	4573.3	4379.1	4317.4	4079.6	3643.7	2346.4
35°	4968.0	4915.3	4888.3	4817.6	4797.0	4883.1	4802.1	4776.4	4581.0	4186.3	2625.4
37.5°	5024.6	5041.3	5036.1	4947.4	4991.1	5223.8	5328.0	5261.1	5158.3	4758.4	2927.6
40°	5074.7	5086.3	5060.6	5164.7	5289.4	5554.3	5931.0	5820.4	5781.8	5338.3	3348.0
42.5°	5103.0	5094.0	5094.0	5274.0	5463.0	5995.3	6513.4	6440.1	6410.6	5955.4	3834.0
45°	4980.8	4893.4	4987.3	5231.6	5612.1	6212.6	6978.8	7080.4	7038.0	6689.6	4402.3
47.5°	4524.4	4578.4	4631.1	4957.7	5430.8	6145.7	7264.3	7610.1	7688.6	7306.7	4775.1
50°	3834.0	3822.4	3931.7	4343.1	4917.8	5857.7	7209.0	7763.1	7905.8	7491.8	4853.6
52.5°	2788.7	2873.6	2991.8	3400.7	4082.1	5112.0	6495.4	7368.4	7558.7	7264.3	4802.1
55°	1623.9	1530.0	1796.1	2142.0	2784.9	3855.8	5491.3	6531.4	6883.7	6850.3	4542.4
57.5°	650.6	630.0	721.3	972.0	1452.9	2390.1	3993.4	5366.6	5931.0	6274.3	3992.1
60°	285.4	279.0	327.9	396.0	594.0	1101.9	2184.4	3337.7	3926.6	4384.3	2747.6
62.5°	205.7	203.1	227.6	252.0	313.7	479.6	918.0	1344.9	1676.6	2025.0	1230.4
65°	165.9	172.3	189.0	201.9	231.4	266.1	324.0	374.1	459.0	475.7	271.3
67.5°	135.0	140.1	155.6	169.7	174.9	144.0	149.1	131.1	131.1	117.0	93.9
70°	99.0	100.3	118.3	135.0	108.0	57.9	101.6	101.6	91.3	87.4	79.7
72.5°	73.3	74.6	88.7	83.6	42.4	36.0	74.6	82.3	74.6	70.7	64.3
75°	54.0	55.3	46.3	19.3	18.0	23.1	43.7	56.6	54.0	52.7	48.9
77.5°	10.3	7.7	6.4	9.0	12.9	19.3	28.3	34.7	36.0	38.6	36.0
80°	1.3	1.3	3.9	7.7	14.1	20.6	29.6	33.4	34.7	36.0	33.4
82.5°	0.0	1.3	3.9	7.7	14.1	19.3	25.7	29.6	32.1	33.4	32.1
85°	0.0	1.3	2.6	6.4	11.6	14.1	12.9	9.0	7.7	9.0	6.4
87.5°	0.0	0.0	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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°	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0
2.5°	820.3	815.1	797.1	777.9	761.1	768.9	761.1	754.7	757.3	754.7	752.1
5°	865.3	842.1	803.6	786.9	772.7	771.4	767.6	766.3	767.6	767.6	756.0
7.5°	907.7	870.4	829.3	811.3	794.6	795.9	786.9	786.9	785.6	779.1	776.6
10°	972.0	921.9	869.1	837.0	816.4	812.6	803.6	794.6	794.6	794.6	781.7
12.5°	1042.7	979.7	907.7	870.4	846.0	826.7	812.6	810.0	795.9	793.3	786.9
15°	1104.4	1024.7	933.4	882.0	851.1	825.4	803.6	789.4	783.0	779.1	774.0
17.5°	1164.9	1063.3	947.6	882.0	848.6	819.0	795.9	783.0	767.6	770.1	759.9
20°	1245.9	1104.4	951.4	865.3	824.1	795.9	765.0	758.6	749.6	741.9	744.4
22.5°	1324.3	1134.0	939.9	844.7	785.6	752.1	736.7	729.0	725.1	718.7	709.7
25°	1395.0	1166.1	921.9	807.4	744.4	720.0	705.9	704.6	695.6	695.6	678.9
27.5°	1467.0	1177.7	891.0	763.7	708.4	694.3	687.9	685.3	681.4	672.4	660.9
30°	1549.3	1181.6	846.0	718.7	676.3	660.9	669.9	676.3	659.6	642.9	648.0
32.5°	1617.4	1172.6	792.0	676.3	653.1	645.4	663.4	669.9	650.6	632.6	623.6
35°	1699.7	1150.7	739.3	642.9	630.0	645.4	660.9	660.9	622.3	600.4	595.3
37.5°	1824.4	1126.3	690.4	614.6	605.6	637.7	658.3	644.1	583.7	556.7	550.3
40°	1958.1	1110.9	642.9	586.3	592.7	624.9	636.4	592.7	531.0	514.3	509.1
42.5°	2152.3	1080.0	600.4	561.9	581.1	606.9	606.9	528.4	505.3	496.3	495.0
45°	2394.0	1058.1	563.1	541.3	564.4	570.9	550.3	495.0	478.3	475.7	477.0
47.5°	2512.3	1015.7	524.6	516.9	533.6	534.9	480.9	468.0	453.9	450.0	447.4
50°	2494.3	939.9	474.4	484.7	507.9	495.0	438.4	441.0	428.1	426.9	420.4
52.5°	2368.3	820.3	424.3	448.7	474.4	437.1	403.7	401.1	401.1	384.4	378.0
55°	2099.6	660.9	363.9	394.7	425.6	367.7	358.7	356.1	349.7	334.3	330.4
57.5°	1662.4	484.7	273.9	307.3	361.3	312.4	311.1	299.6	282.9	271.3	271.3
60°	988.7	279.0	172.3	187.7	239.1	253.3	281.6	276.4	248.1	230.1	225.0
62.5°	451.3	144.0	109.3	111.9	128.6	164.6	221.1	255.9	216.0	185.1	182.6
65°	151.7	106.7	90.0	86.1	88.7	99.0	132.4	181.3	172.3	142.7	137.6
67.5°	92.6	95.1	84.9	78.4	78.4	77.1	75.9	82.3	101.6	99.0	100.3
70°	79.7	87.4	78.4	70.7	68.1	64.3	54.0	45.0	38.6	45.0	47.6
72.5°	64.3	69.4	66.9	60.4	54.0	48.9	38.6	29.6	21.9	19.3	19.3
75°	47.6	51.4	54.0	46.3	41.1	34.7	28.3	19.3	11.6	7.7	7.7
77.5°	34.7	38.6	39.9	36.0	30.9	24.4	18.0	12.9	6.4	2.6	2.6
80°	29.6	34.7	38.6	36.0	32.1	23.1	16.7	9.0	5.1	1.3	1.3
82.5°	28.3	34.7	38.6	34.7	30.9	21.9	16.7	10.3	3.9	1.3	1.3
85°	6.4	9.0	11.6	14.1	16.7	16.7	12.9	7.7	3.9	1.3	1.3
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	1.3	1.3	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)