

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: P529019

Luminaire Tested: **GALN-SA4A-827-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529019  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-827-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7845 lumens  
Efficiency: N/A  
Efficacy: 64.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

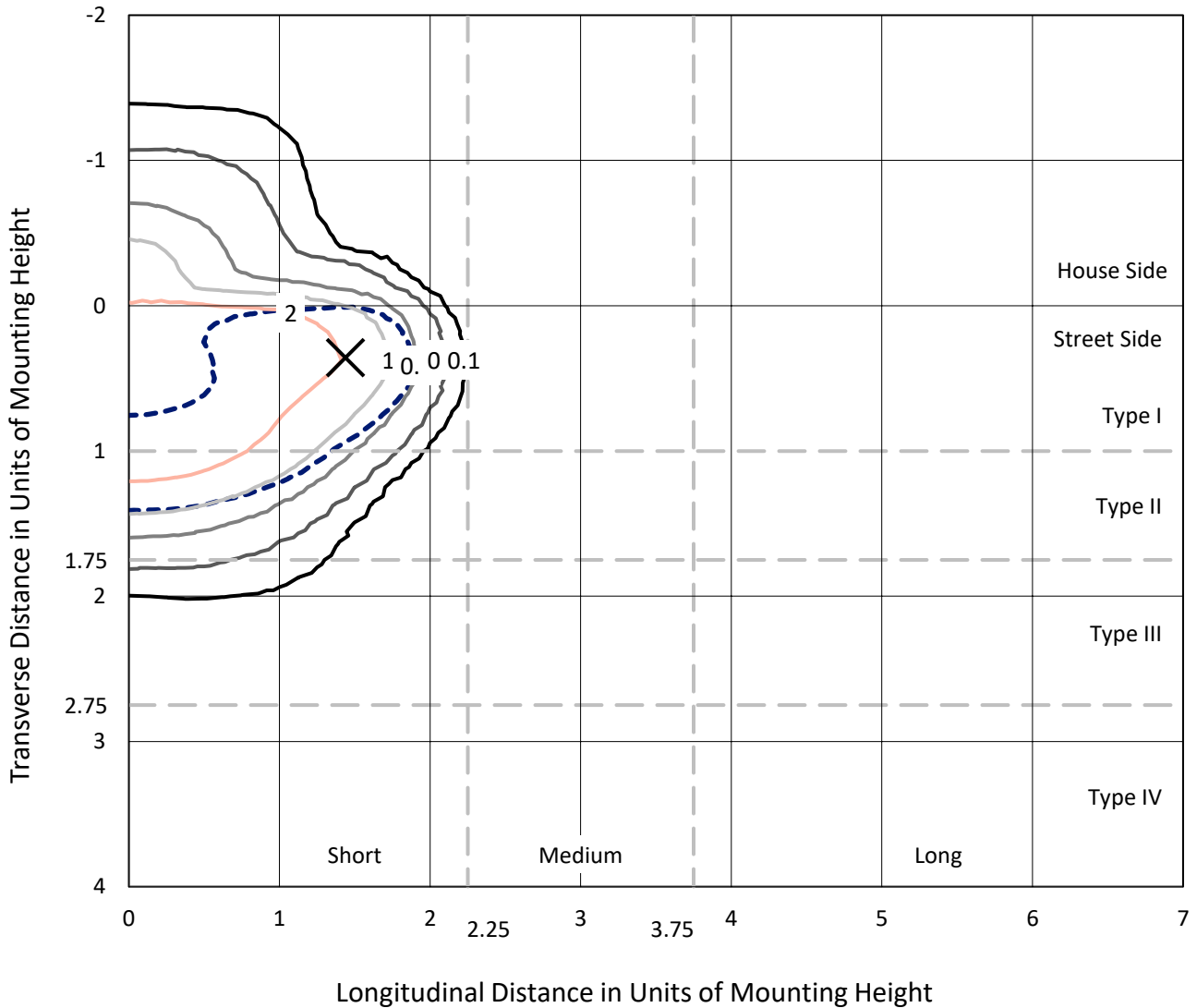
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

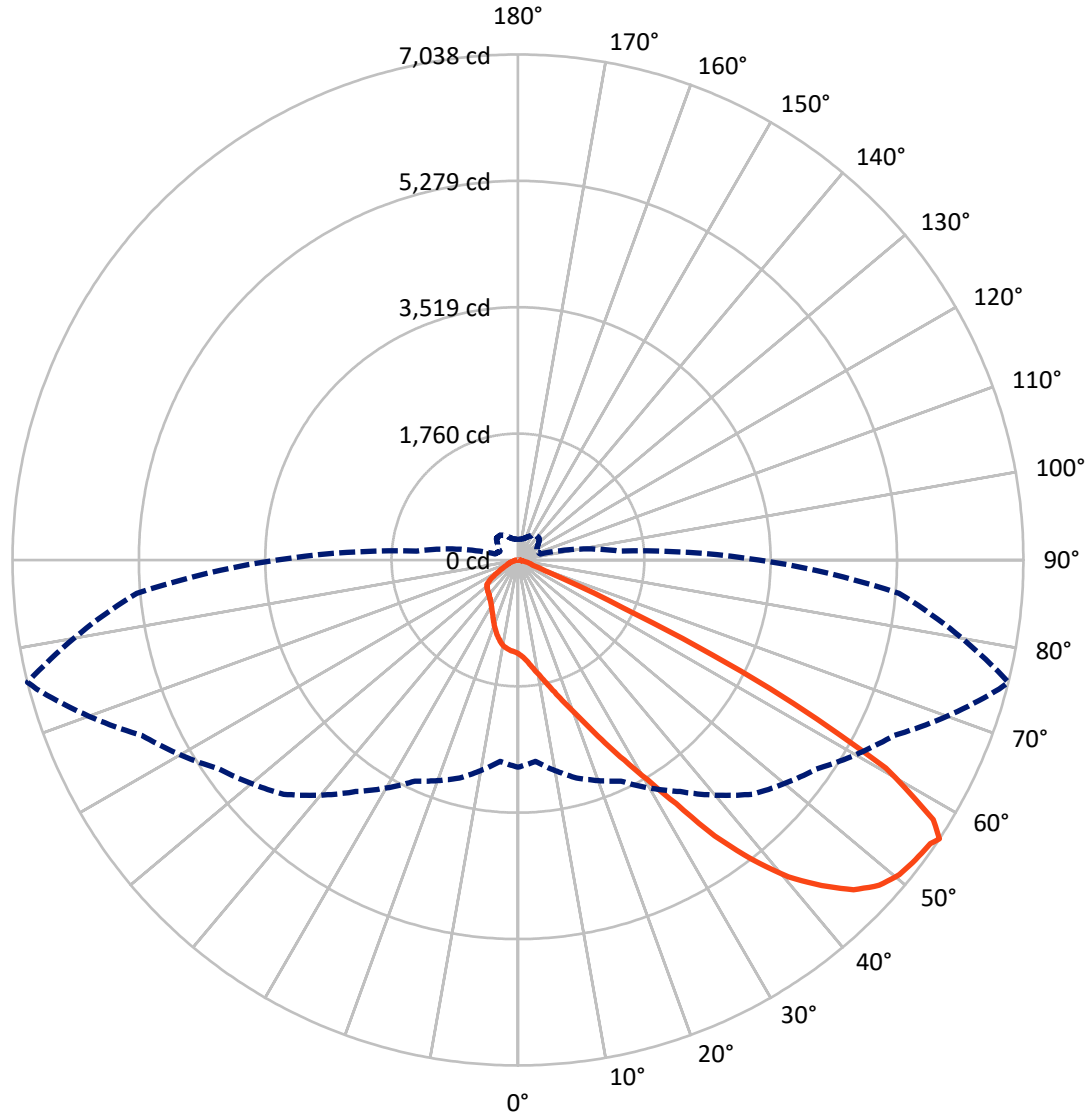
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical



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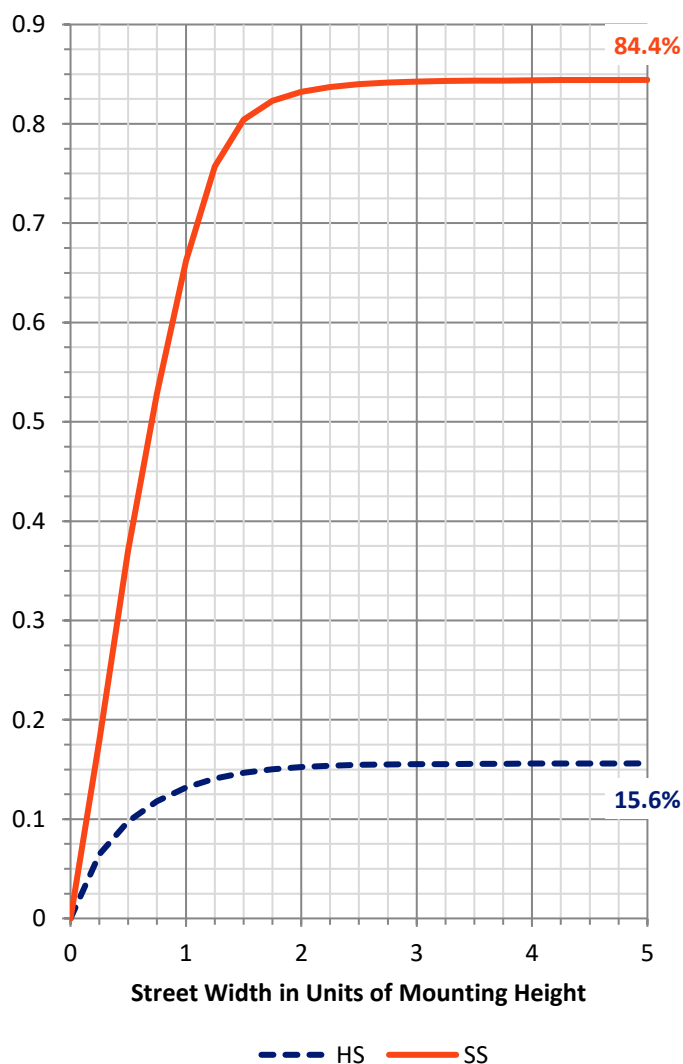
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1232.4	0.0	1232.4
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	6612.6	0.0	6612.6
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	7845.0	0.0	7845.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.5	1.7
10°-20°	422.6	5.4
20°-30°	766.3	9.8
30°-40°	1321.5	16.8
40°-50°	2146.8	27.4
50°-60°	2262.8	28.8
60°-70°	691.4	8.8
70°-80°	88.6	1.1
80°-90°	13.5	0.2
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°	7845.0	100.0
0°-180°	7845.0	100.0

**Coefficient of Utilization**



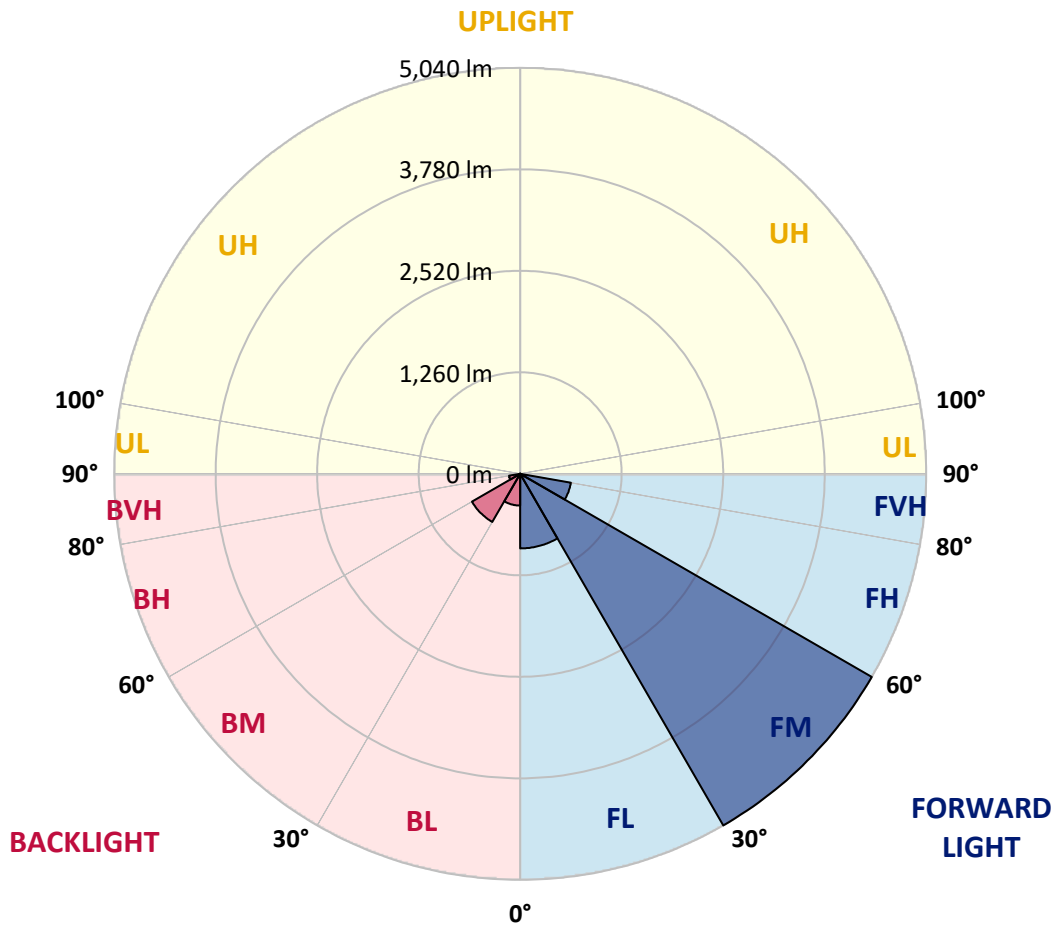
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	926.2	11.8			
FM (30°-60°)	5040.4	64.2			
FH (60°-80°)	639.4	8.2			G0/660
FVH (80°-90°)	6.6	0.1			G0/10
BL (0°-30°)	394.2	5.0	B1/500		
BM (30°-60°)	690.7	8.8	B1/1000		
BH (60°-80°)	140.6	1.8	B1/500		G1/500
BVH (80°-90°)	6.9	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1305.8	1305.8	1305.8	1305.8	1305.8	1305.8	1305.8	1305.8	1305.8	1305.8	1305.8
2.5°	1503.9	1469.2	1470.7	1467.8	1463.4	1447.5	1399.8	1392.6	1360.8	1352.1	1323.2
5°	1684.7	1654.3	1671.7	1645.6	1621.1	1606.6	1528.5	1492.4	1441.7	1422.9	1382.5
7.5°	1797.5	1783.0	1777.2	1778.7	1755.5	1719.4	1684.7	1605.2	1537.2	1522.7	1437.4
10°	1852.4	1843.8	1852.4	1848.1	1858.2	1862.6	1801.8	1754.1	1654.3	1629.7	1496.7
12.5°	1865.4	1882.8	1890.0	1908.8	1933.4	1975.3	1971.0	1905.9	1772.9	1757.0	1587.8
15°	1897.3	1911.7	1904.5	1934.9	1981.1	2052.0	2089.6	2079.5	1936.3	1907.4	1693.4
17.5°	1926.2	1900.2	1924.7	1985.5	2031.7	2140.2	2231.3	2273.2	2114.2	2080.9	1790.2
20°	1965.2	1958.0	1953.7	1984.0	2066.5	2211.1	2391.8	2468.5	2313.7	2279.0	1929.1
22.5°	2083.8	2085.3	2082.4	2037.5	2096.8	2260.2	2532.1	2721.5	2552.3	2523.4	2086.7
25°	2240.0	2221.2	2206.7	2170.6	2163.3	2305.1	2673.8	3031.0	2838.7	2818.4	2257.3
27.5°	2404.8	2404.8	2361.5	2328.2	2281.9	2416.4	2804.0	3331.8	3184.3	3156.8	2406.3
30°	2584.1	2594.3	2588.5	2517.6	2488.7	2537.9	2937.0	3716.4	3580.5	3545.8	2652.1
32.5°	2848.8	2827.1	2851.7	2792.4	2707.1	2750.4	3146.7	4060.6	4095.3	4046.1	2974.6
35°	3198.7	3185.7	3169.8	3072.9	2971.7	3006.4	3443.1	4484.3	4741.7	4717.1	3300.0
37.5°	3512.5	3505.3	3492.3	3425.8	3308.6	3350.6	3780.1	4925.4	5372.2	5291.2	3759.8
40°	3842.2	3881.3	3839.3	3780.1	3673.0	3765.6	4176.3	5187.1	5902.9	5804.6	4111.2
42.5°	4289.1	4258.7	4277.5	4169.1	4111.2	4212.4	4574.0	5448.8	6315.0	6197.9	4484.3
45°	4764.8	4766.3	4715.7	4681.0	4530.6	4640.5	4818.3	5593.4	6643.3	6552.2	4766.3
47.5°	5070.0	5068.5	5123.5	5178.4	5023.7	4915.2	4984.6	5730.8	6812.5	6770.6	4869.0
50°	5022.2	5036.7	5107.6	5312.9	5393.9	5247.8	5140.8	5690.3	6889.1	6884.8	4957.2
52.5°	4368.6	4416.3	4534.9	4831.4	5239.2	5419.9	5304.2	5765.5	6926.7	6934.0	5088.8
55°	3326.0	3352.0	3577.6	3937.7	4388.9	5007.8	5239.2	5824.8	6955.7	6968.7	5247.8
56°	2884.9	2815.5	3140.9	3396.8	3936.2	4613.0	5074.3	5778.5	6938.3	7038.1	5327.4
57.5°	2177.8	2131.5	2394.7	2714.3	3233.4	3947.8	4562.4	5560.2	6821.2	6819.7	5213.1
60°	1324.6	1278.3	1480.8	1668.8	1959.4	2430.9	3083.0	4427.9	5767.0	5888.4	4221.1
62.5°	788.1	817.0	1016.6	1130.8	1224.8	1274.0	1595.0	2631.9	3848.0	3934.8	2618.9
65°	524.9	535.1	685.4	873.4	915.4	728.8	649.3	1065.8	1668.8	1615.3	1080.2
67.5°	323.9	347.1	459.9	656.5	727.4	532.2	308.0	397.7	459.9	459.9	312.4
70°	196.7	208.2	306.6	446.8	498.9	342.7	224.1	224.1	221.3	216.9	186.5
72.5°	94.0	101.2	156.2	229.9	234.3	180.8	173.5	189.4	185.1	183.7	154.7
75°	40.5	43.4	55.0	72.3	82.4	76.6	105.6	135.9	140.3	135.9	111.3
77.5°	13.0	14.5	20.2	26.0	27.5	33.3	44.8	56.4	65.1	60.7	55.0
80°	1.4	2.9	5.8	13.0	20.2	26.0	33.3	37.6	41.9	41.9	39.0
82.5°	1.4	1.4	5.8	11.6	18.8	24.6	31.8	36.2	41.9	43.4	40.5
85°	0.0	1.4	4.3	10.1	15.9	15.9	14.5	14.5	10.1	10.1	10.1
87.5°	0.0	0.0	1.4	1.4	1.4	2.9	2.9	2.9	2.9	2.9	2.9
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°	1305.8	1305.8	1305.8	1305.8	1305.8	1305.8	1305.8	1305.8	1305.8	1305.8	1305.8
2.5°	1317.4	1314.5	1275.4	1250.9	1237.8	1211.8	1195.9	1184.3	1175.7	1165.5	1167.0
5°	1334.7	1324.6	1259.5	1214.7	1161.2	1132.3	1107.7	1087.5	1074.4	1071.5	1065.8
7.5°	1383.9	1330.4	1232.1	1151.1	1083.1	1054.2	1032.5	1019.5	1025.3	1012.3	1022.4
10°	1421.5	1342.0	1198.8	1081.7	1013.7	992.0	980.4	990.6	1005.0	999.2	992.0
12.5°	1467.8	1353.5	1145.3	1015.1	951.5	935.6	955.9	974.7	1003.6	1015.1	1000.7
15°	1519.8	1366.5	1077.3	938.5	898.0	911.0	945.7	979.0	1007.9	1022.4	1031.1
17.5°	1583.5	1362.2	1010.8	877.8	847.4	885.0	926.9	957.3	1000.7	1022.4	1016.6
20°	1642.7	1347.7	937.1	817.0	818.5	853.2	887.9	937.1	960.2	989.1	979.0
22.5°	1699.1	1321.7	860.4	775.1	775.1	828.6	846.0	877.8	898.0	912.5	911.0
25°	1778.7	1272.6	796.8	734.6	752.0	786.7	801.1	811.3	802.6	814.1	815.6
27.5°	1835.1	1221.9	744.7	698.5	730.3	756.3	752.0	746.2	725.9	710.0	720.1
30°	1895.8	1162.6	699.9	673.9	691.2	714.4	697.0	679.7	647.8	621.8	623.3
32.5°	1982.6	1135.2	660.9	645.0	668.1	671.0	652.2	626.2	594.3	569.8	568.3
35°	2144.5	1117.8	627.6	626.2	630.5	631.9	613.1	581.3	568.3	548.1	555.3
37.5°	2306.5	1109.1	604.5	598.7	597.2	598.7	577.0	546.6	571.2	569.8	572.6
40°	2513.3	1148.2	571.2	564.0	565.4	565.4	537.9	529.3	572.6	577.0	578.4
42.5°	2723.0	1197.4	549.5	526.4	532.2	532.2	517.7	507.6	537.9	509.0	504.7
45°	2905.2	1269.7	526.4	488.8	503.2	510.5	506.1	488.8	470.0	420.8	420.8
47.5°	2964.5	1333.3	498.9	452.6	464.2	496.0	483.0	446.8	413.6	373.1	370.2
50°	3068.6	1402.7	477.2	410.7	435.3	474.3	461.3	425.1	387.5	358.6	360.1
52.5°	3175.6	1482.2	436.7	361.5	391.9	457.0	457.0	416.5	358.6	338.4	335.5
55°	3336.1	1479.3	364.4	296.4	350.0	430.9	438.2	373.1	321.0	305.1	305.1
56°	3359.2	1412.8	328.3	277.6	331.2	423.7	425.1	361.5	306.6	289.2	289.2
57.5°	3185.7	1275.4	287.8	254.5	308.0	410.7	412.1	351.4	295.0	270.4	267.5
60°	2451.1	863.3	240.0	227.0	279.1	370.2	377.4	319.6	258.8	240.0	238.6
62.5°	1383.9	478.7	211.1	205.3	240.0	315.2	336.9	279.1	219.8	209.7	212.6
65°	631.9	263.2	177.9	166.3	193.8	242.9	271.9	229.9	180.8	169.2	169.2
67.5°	231.4	179.3	151.8	131.6	135.9	157.6	176.4	148.9	120.0	102.7	107.0
70°	164.9	150.4	133.0	114.2	105.6	102.7	101.2	83.9	59.3	46.3	49.2
72.5°	133.0	124.4	111.3	96.9	82.4	69.4	59.3	43.4	27.5	18.8	17.4
75°	95.4	91.1	81.0	69.4	57.8	49.2	40.5	27.5	14.5	7.2	7.2
77.5°	49.2	49.2	47.7	43.4	36.2	28.9	23.1	15.9	8.7	2.9	2.9
80°	37.6	40.5	41.9	37.6	33.3	26.0	18.8	11.6	5.8	1.4	1.4
82.5°	36.2	41.9	44.8	39.0	33.3	24.6	18.8	11.6	5.8	1.4	1.4
85°	8.7	8.7	13.0	14.5	18.8	20.2	15.9	10.1	4.3	1.4	1.4
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	1.4	1.4	1.4	1.4	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)