

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: P648283

Luminaire Tested: **GALN-SA2B-835-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648283  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-835-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7173.1 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

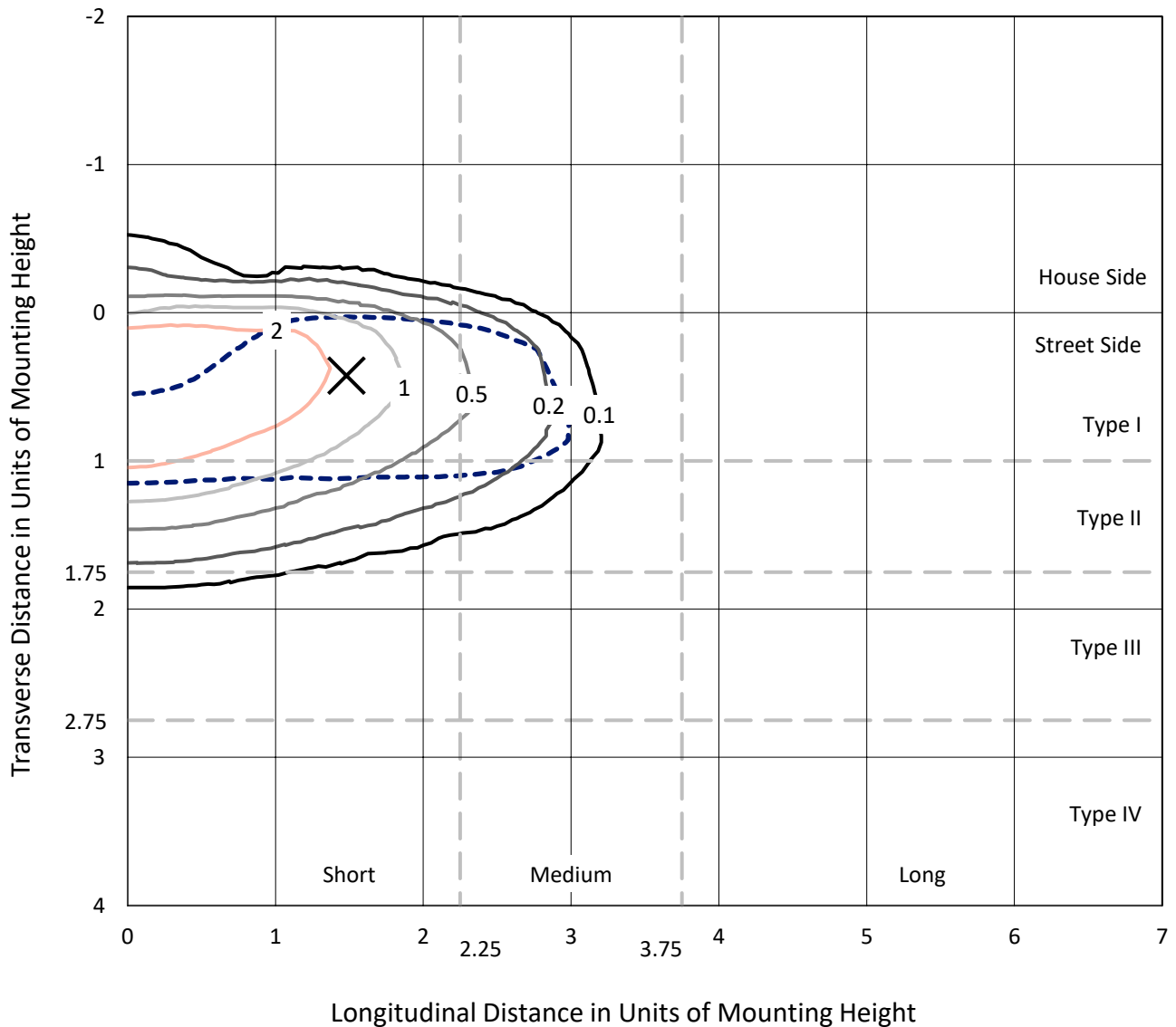
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

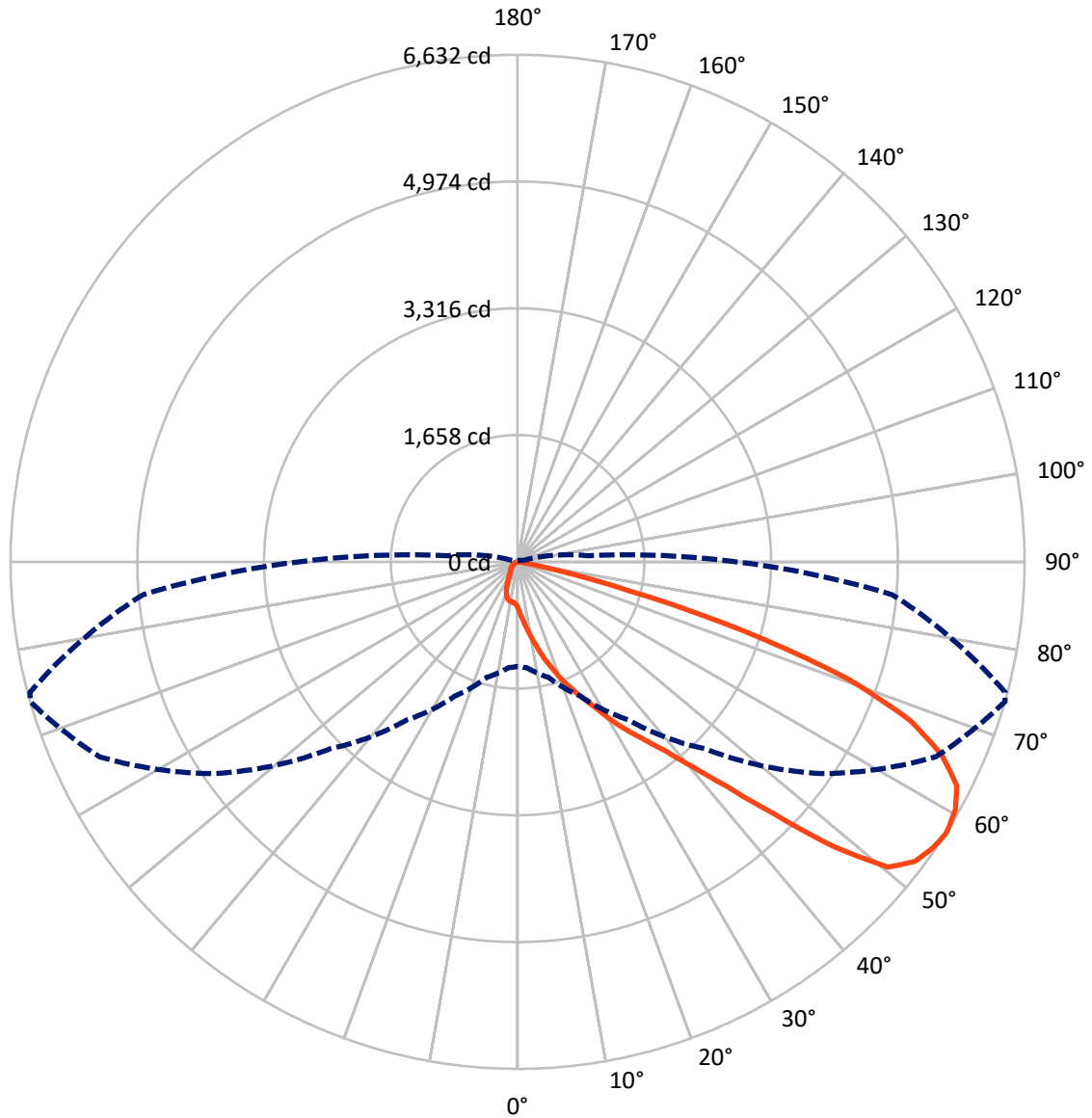
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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 CATALOG NUMBER: GALN-SA2B-835-U-T2R-HSS

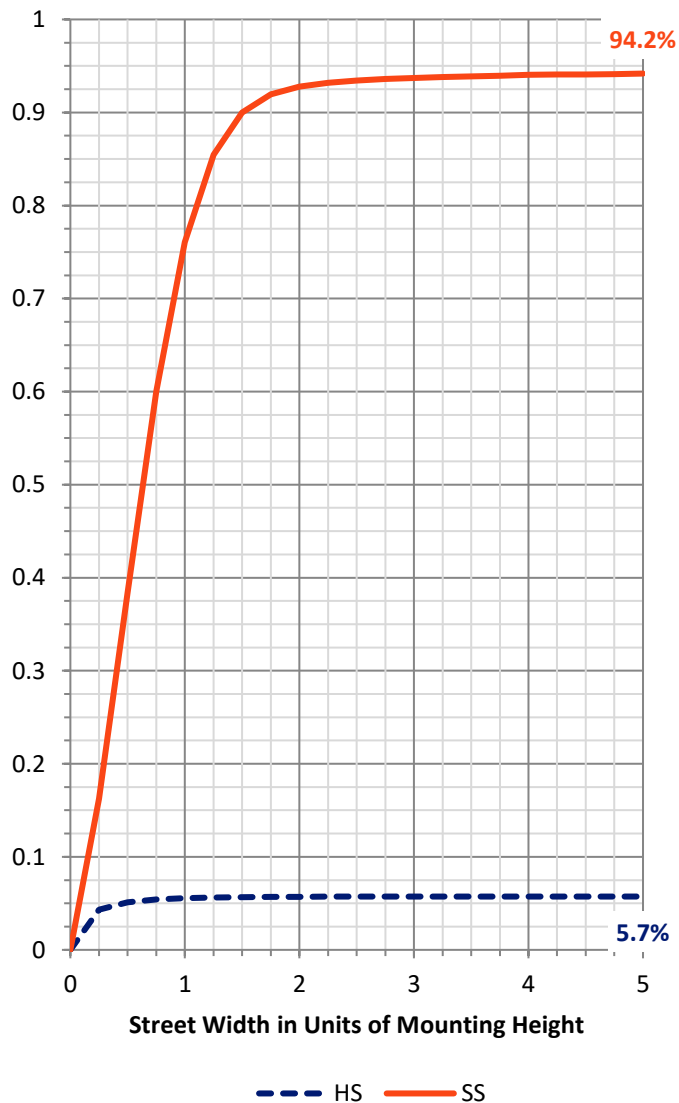
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	413.7	0.0	413.7
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	6759.4	0.0	6759.4
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	7173.1	0.0	7173.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.5	1.0
10°-20°	285.8	4.0
20°-30°	611.6	8.5
30°-40°	1124.0	15.7
40°-50°	1723.2	24.0
50°-60°	1822.9	25.4
60°-70°	1190.4	16.6
70°-80°	325.3	4.5
80°-90°	17.5	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°	7173.1	100.0
0°-180°	7173.1	100.0

**Coefficient of Utilization**

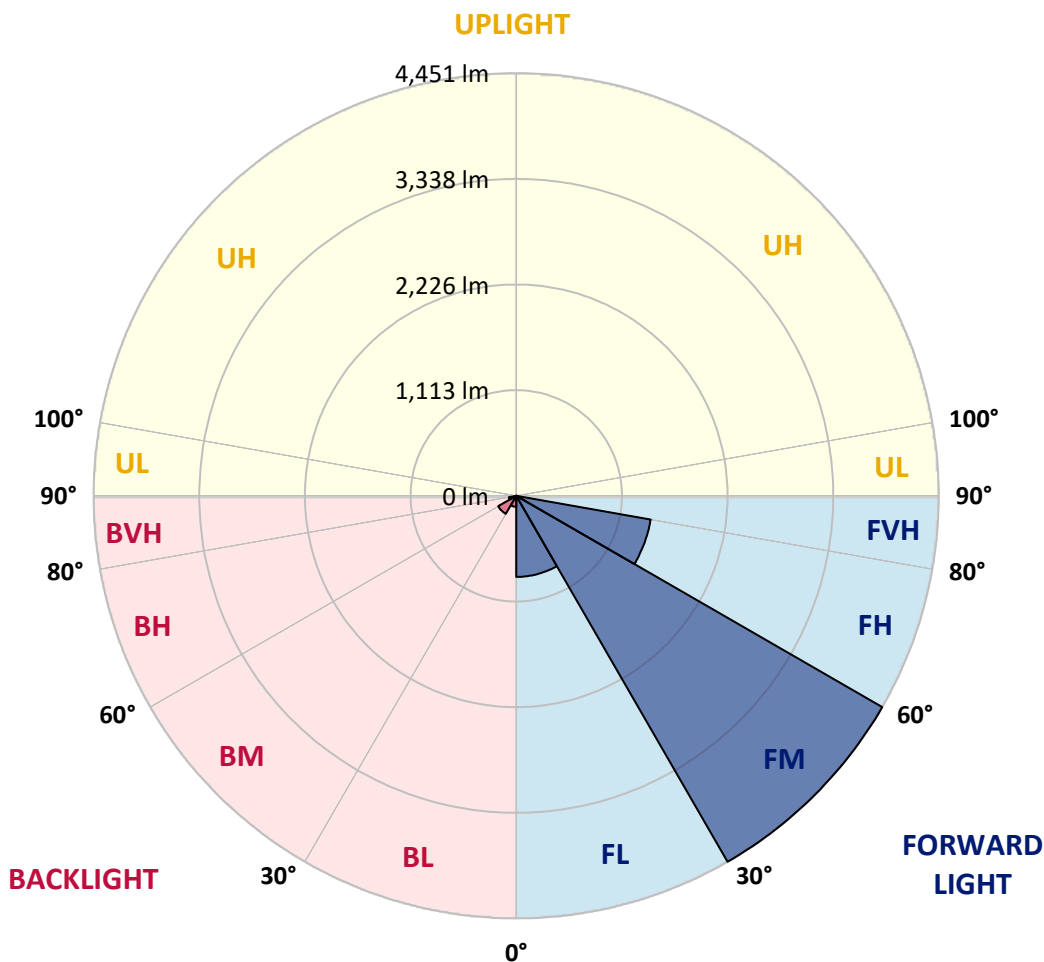


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	854.3	11.9			
FM (30°-60°)	4451.0	62.1			
FH (60°-80°)	1438.0	20.0			G1/1800
FVH (80°-90°)	16.1	0.2			G1/100
BL (0°-30°)	115.6	1.6	B1/500		
BM (30°-60°)	219.0	3.1	B0/220		
BH (60°-80°)	77.7	1.1	B0/110		G0/110
BVH (80°-90°)	1.5	0.0			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°	74°	75°	85°
0°	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7
2.5°	879.1	871.2	855.3	849.9	826.5	790.4	758.7	716.1	682.5	679.0	638.4
5°	1177.2	1159.4	1151.9	1116.3	1060.3	1007.8	917.7	849.3	770.6	764.7	682.9
7.5°	1464.4	1439.7	1432.3	1398.6	1333.2	1250.5	1133.6	1009.3	884.5	873.1	742.8
10°	1672.5	1675.9	1662.5	1640.2	1587.3	1503.0	1359.0	1189.1	1011.3	996.9	810.2
12.5°	1821.5	1821.0	1823.5	1823.0	1794.8	1730.9	1579.3	1383.7	1150.9	1122.7	887.5
15°	1918.6	1920.1	1927.5	1953.3	1956.2	1916.6	1790.3	1569.9	1312.9	1277.7	971.2
17.5°	2016.6	2027.0	2038.9	2063.2	2085.0	2069.2	1980.0	1764.1	1459.5	1433.3	1060.8
20°	2178.6	2192.9	2186.1	2200.9	2212.3	2213.8	2145.0	1943.3	1637.3	1593.2	1163.3
22.5°	2437.6	2437.1	2419.3	2392.5	2370.2	2369.3	2306.9	2127.6	1798.7	1756.1	1266.3
25°	2764.9	2766.4	2731.8	2655.5	2600.0	2532.2	2460.4	2289.0	1971.6	1919.1	1374.8
27.5°	3140.4	3131.0	3078.4	2973.4	2863.5	2747.6	2644.1	2476.7	2154.8	2111.2	1499.1
30°	3477.6	3474.2	3412.8	3284.5	3139.8	3023.5	2873.5	2712.0	2392.1	2338.6	1638.3
32.5°	3791.6	3796.5	3711.4	3578.6	3439.0	3304.8	3146.3	2936.8	2624.8	2549.1	1789.9
35°	4036.8	4041.7	3953.5	3843.1	3699.5	3588.1	3437.0	3176.6	2854.6	2790.7	1964.2
37.5°	4167.5	4173.9	4123.0	4039.7	3950.1	3894.1	3753.5	3485.1	3134.0	3095.3	2170.2
40°	4192.3	4199.7	4177.4	4155.1	4150.1	4190.3	4149.2	3848.6	3521.2	3460.8	2477.3
42.5°	4118.0	4127.9	4137.8	4187.3	4288.3	4435.5	4578.6	4341.8	4019.9	3938.7	2852.6
45°	3922.8	3921.9	3961.0	4089.2	4315.6	4629.6	5027.3	4959.4	4699.4	4602.8	3383.0
47.5°	3589.0	3584.1	3668.8	3851.5	4204.2	4665.2	5393.2	5709.2	5566.6	5477.4	3953.1
50°	3080.4	3104.7	3237.9	3493.0	3927.3	4557.3	5506.1	6201.0	6278.3	6183.7	4413.6
52.5°	2484.6	2483.7	2692.7	3038.8	3517.2	4319.6	5427.4	6290.2	6509.5	6437.2	4640.4
55°	1838.9	1851.7	2069.2	2418.3	2984.9	3885.7	5170.4	6198.5	6597.7	6546.7	4790.0
57°	1367.9	1390.7	1565.0	1934.4	2521.3	3456.3	4828.1	6034.6	6632.3	6604.6	4914.3
57.5°	1276.8	1277.7	1447.6	1783.4	2385.6	3291.4	4730.1	5966.2	6631.4	6616.0	4934.6
60°	786.0	810.7	928.1	1205.4	1746.2	2568.9	4072.9	5573.5	6579.9	6602.2	5021.3
62.5°	470.5	480.9	557.2	726.5	1125.7	1875.0	3333.0	5070.9	6445.7	6513.5	5015.3
65°	302.6	305.1	339.7	439.8	703.8	1267.4	2568.3	4406.7	6098.5	6223.3	4819.3
67.5°	233.7	237.7	251.6	288.7	408.1	789.4	1816.6	3698.0	5536.8	5697.8	4343.8
70°	207.5	209.5	214.5	226.4	269.9	445.7	1130.2	2888.8	4591.4	4637.0	3399.4
72.5°	169.4	174.8	190.2	194.1	213.9	278.4	629.0	1938.9	3084.9	3096.3	1901.8
75°	131.2	132.2	155.0	166.4	180.2	191.7	280.8	977.7	1481.7	1402.5	733.0
77.5°	98.0	102.5	112.9	127.3	147.1	137.2	125.8	368.5	460.1	451.6	213.0
80°	62.9	65.4	78.8	95.6	114.4	89.7	70.8	108.0	101.0	104.0	51.0
82.5°	31.7	32.2	50.5	77.8	72.8	45.1	44.6	44.1	37.7	37.1	23.8
85°	3.4	7.4	32.7	44.6	32.7	14.9	20.8	20.3	19.8	20.3	13.9
87.5°	0.5	0.5	5.5	6.4	4.5	4.9	6.0	6.4	7.9	7.4	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P648283

CATALOG NUMBER: GALN-SA2B-835-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7	600.7
2.5°	618.6	598.8	562.1	527.0	500.7	483.9	462.0	454.1	442.8	441.3	435.8
5°	645.3	607.7	543.8	493.3	452.7	422.0	395.2	372.9	355.1	351.1	353.1
7.5°	683.4	627.5	538.3	469.5	413.0	360.6	318.0	291.7	272.9	266.0	266.9
10°	726.5	653.7	537.4	444.3	358.1	293.7	247.1	223.9	213.0	209.0	204.5
12.5°	777.5	684.0	534.9	405.1	297.6	234.3	201.1	187.2	176.8	173.8	173.8
15°	835.0	716.1	523.0	356.6	241.7	193.6	171.3	160.4	157.0	154.0	154.0
17.5°	894.9	747.8	498.2	296.7	200.6	165.9	152.1	145.6	140.6	137.2	137.2
20°	963.2	779.0	458.6	243.7	169.4	148.1	137.2	129.7	125.8	122.9	121.8
22.5°	1028.2	804.3	408.1	200.1	147.6	133.2	123.3	115.4	111.4	109.9	109.9
25°	1095.5	819.6	347.2	165.4	134.7	120.8	109.9	103.5	100.1	99.0	98.6
27.5°	1160.9	828.6	293.7	144.6	122.9	109.5	99.0	94.1	90.6	89.7	90.1
30°	1240.1	830.1	241.7	129.7	112.4	98.6	89.1	84.7	82.7	81.7	81.2
32.5°	1320.3	828.0	203.0	120.8	102.5	89.1	81.2	77.8	76.3	74.8	74.8
35°	1410.5	817.7	172.8	111.9	93.1	81.2	74.3	71.3	69.3	67.9	67.3
37.5°	1522.4	812.2	155.5	102.0	84.7	73.8	67.3	64.4	62.9	60.9	60.4
40°	1698.7	836.5	150.0	93.1	76.3	66.9	60.9	57.5	55.4	53.5	53.0
42.5°	1918.6	879.1	141.2	84.2	68.8	60.4	54.5	50.5	47.1	44.6	43.6
45°	2203.4	935.1	127.3	74.8	62.4	53.5	48.1	43.1	38.6	36.6	36.2
47.5°	2502.0	989.0	114.9	67.3	55.4	47.5	41.6	36.2	32.2	30.7	30.2
50°	2685.2	999.9	107.0	59.0	48.5	41.1	35.2	30.2	27.7	26.2	26.2
52.5°	2768.9	982.6	96.1	51.5	42.1	36.2	30.2	26.2	24.7	23.8	23.3
55°	2827.3	955.8	81.7	44.6	36.2	30.7	26.8	23.8	21.8	20.8	20.3
57°	2861.6	919.7	70.8	39.2	31.2	26.8	23.8	21.3	19.3	17.3	17.3
57.5°	2863.0	905.8	67.9	38.6	29.7	25.8	23.3	20.8	18.3	16.4	15.8
60°	2819.0	810.7	54.5	32.7	23.8	21.8	19.3	16.4	12.8	10.9	10.4
62.5°	2677.3	689.9	45.1	27.7	19.3	16.8	13.9	12.4	8.9	6.4	6.4
65°	2462.8	559.6	38.6	22.3	15.8	12.4	9.4	8.9	5.5	3.0	2.5
67.5°	2152.9	435.8	32.7	18.3	13.4	8.9	6.4	6.0	3.0	1.0	0.0
70°	1640.2	297.1	27.2	14.9	9.9	6.4	4.5	3.4	2.0	0.5	0.0
72.5°	945.4	163.4	22.8	11.4	7.4	4.9	3.4	2.0	2.0	0.0	0.0
75°	337.8	70.3	17.3	8.5	6.0	4.0	2.5	1.0	1.5	0.5	0.0
77.5°	107.5	37.7	11.4	6.4	4.9	3.0	2.0	1.0	1.0	0.5	0.0
80°	31.7	19.8	7.0	5.5	3.4	2.5	1.5	0.5	1.0	0.5	0.0
82.5°	17.3	9.9	5.5	4.0	3.4	2.0	1.5	0.5	0.5	0.5	0.0
85°	8.9	6.0	4.5	4.0	3.4	2.0	1.5	0.5	0.0	0.5	0.5
87.5°	4.9	4.5	4.5	4.0	3.4	2.5	1.5	0.5	0.0	0.0	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)