

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: P454530

Luminaire Tested: **GALN-SA5C-827-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454530
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-SA5C-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA 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: 20722 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

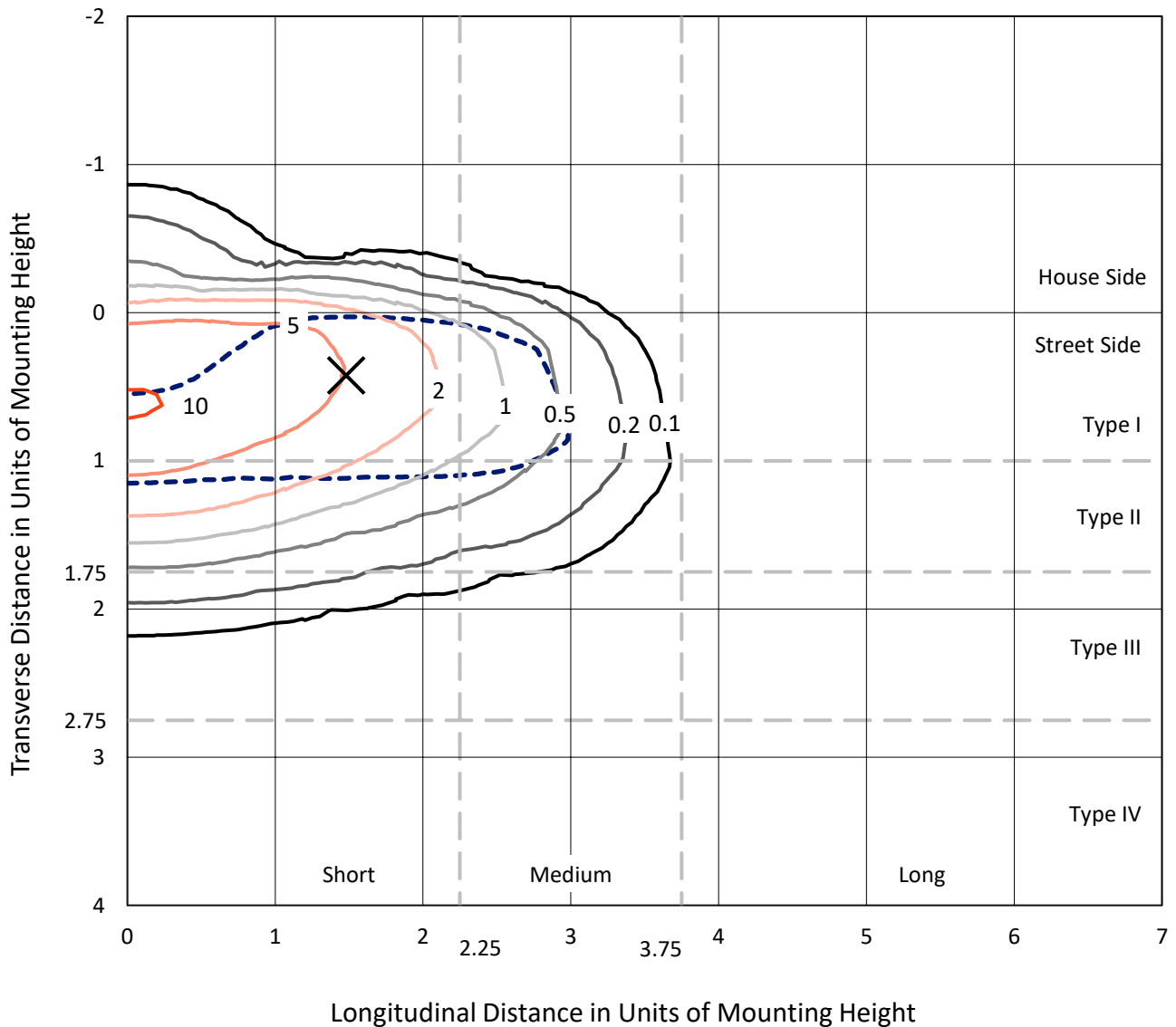
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

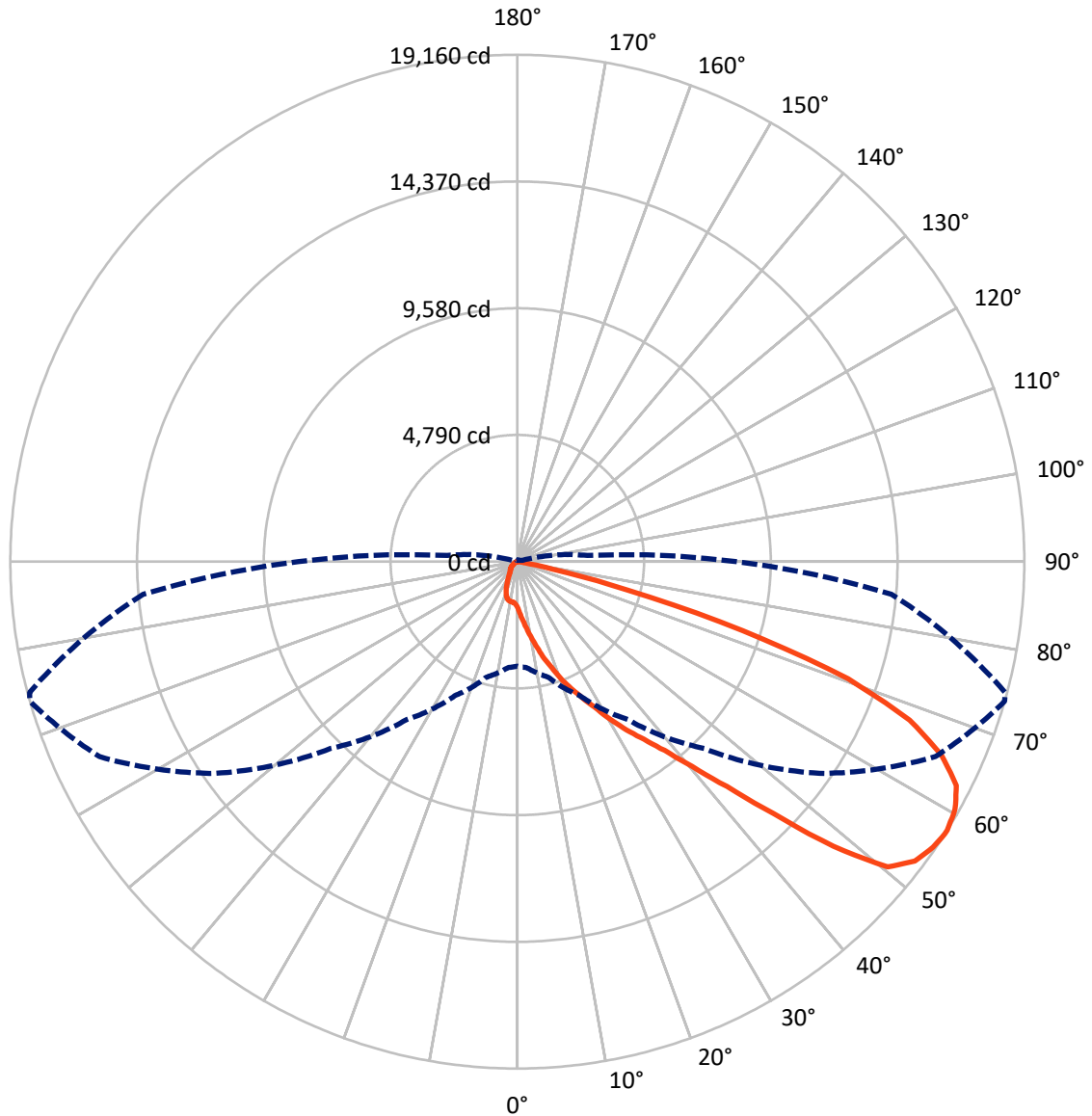
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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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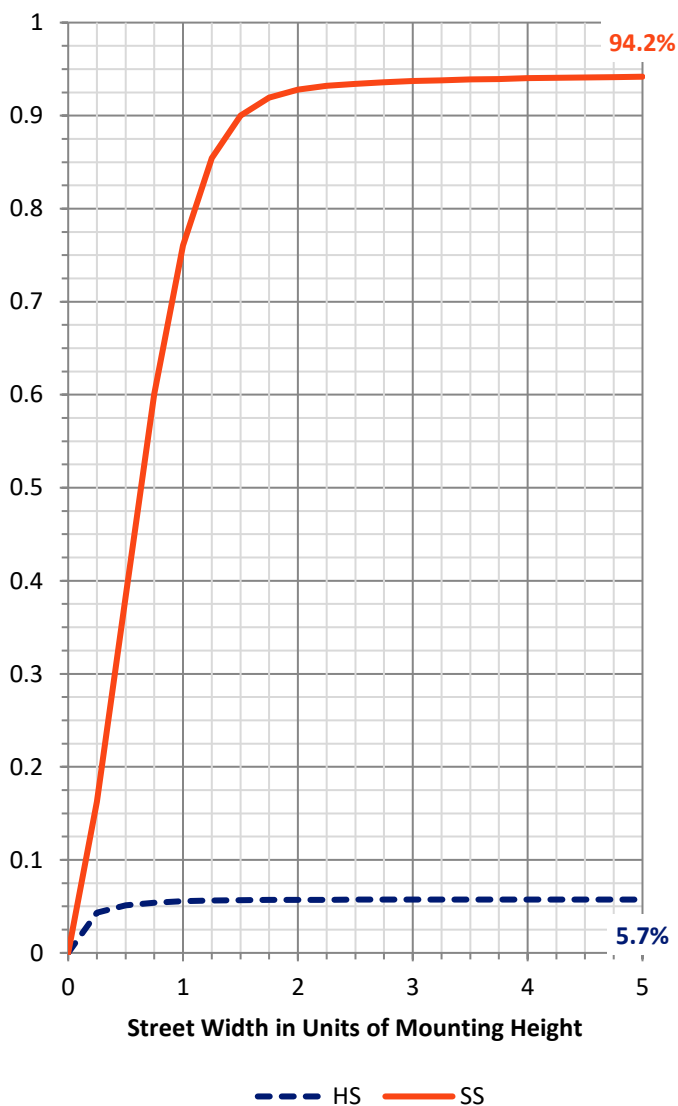
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1195.2	0.0	1195.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	19526.8	0.0	19526.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	20722.0	0.0	20722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.5	1.0
10°-20°	825.7	4.0
20°-30°	1766.7	8.5
30°-40°	3247.2	15.7
40°-50°	4978.0	24.0
50°-60°	5266.0	25.4
60°-70°	3438.8	16.6
70°-80°	939.6	4.5
80°-90°	50.6	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°	20722.0	100.0
0°-180°	20722.0	100.0

Coefficient of Utilization



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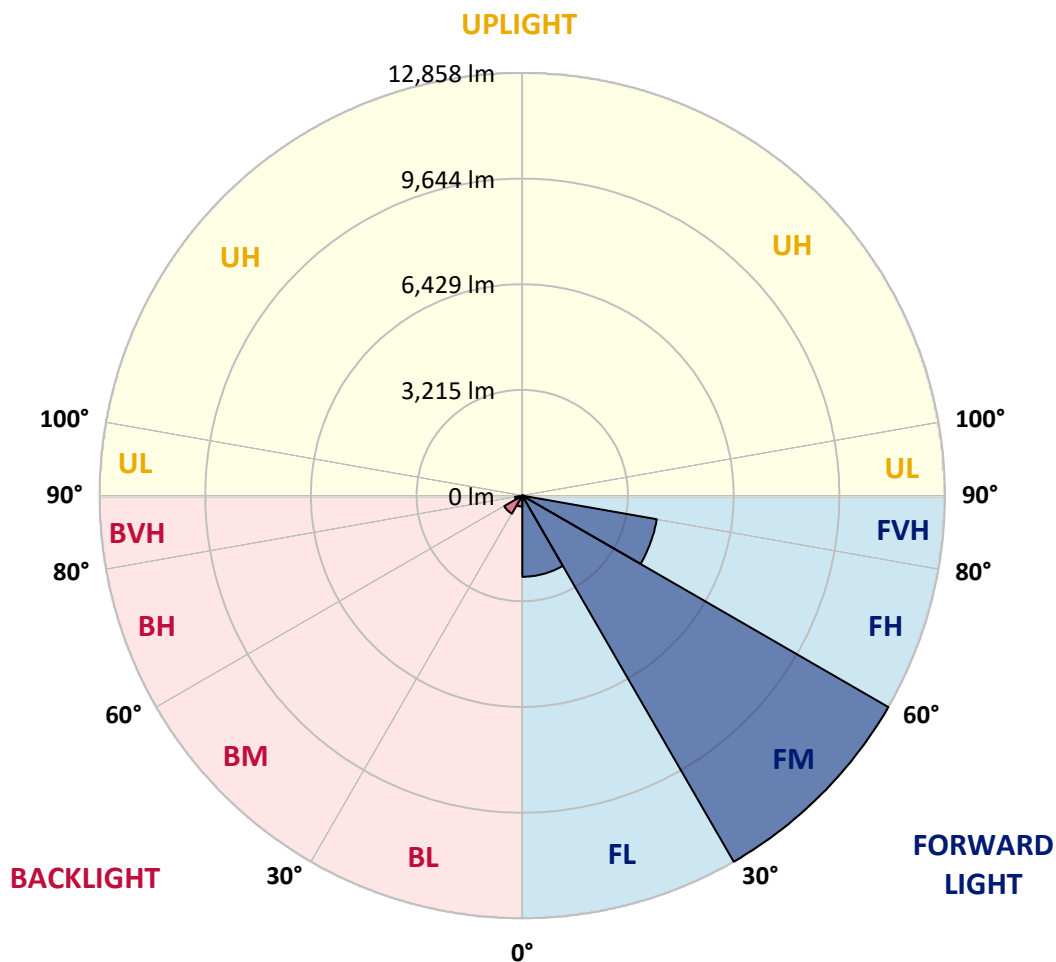
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2468.0	11.9			
FM (30°-60°)	12858.4	62.1			
FH (60°-80°)	4154.1	20.0			G2/5000
FVH (80°-90°)	46.4	0.2			G1/100
BL (0°-30°)	333.9	1.6	B1/500		
BM (30°-60°)	632.8	3.1	B1/1000		
BH (60°-80°)	224.4	1.1	B1/500		G1/500
BVH (80°-90°)	4.2	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1735.4	1735.4	1735.4	1735.4	1735.4	1735.4	1735.4	1735.4	1735.4	1735.4	1735.4
2.5°	2539.5	2516.6	2470.8	2455.1	2387.8	2283.4	2191.8	2068.8	1971.5	1961.5	1844.2
5°	3400.8	3349.3	3327.8	3224.8	3063.1	2911.5	2651.1	2453.7	2226.2	2209.0	1972.9
7.5°	4230.6	4159.0	4137.6	4040.3	3851.4	3612.5	3274.9	2915.8	2555.2	2522.3	2146.1
10°	4831.5	4841.5	4802.9	4738.5	4585.4	4342.2	3925.8	3435.1	2921.5	2880.0	2340.6
12.5°	5262.1	5260.7	5267.8	5266.4	5184.9	5000.3	4562.5	3997.4	3324.9	3243.4	2563.8
15°	5542.5	5546.8	5568.3	5642.7	5651.3	5536.8	5172.0	4535.3	3792.8	3691.2	2805.6
17.5°	5825.8	5855.9	5890.2	5960.3	6023.3	5977.5	5719.9	5096.2	4216.3	4140.4	3064.6
20°	6293.7	6335.1	6315.1	6358.0	6390.9	6395.2	6196.4	5614.1	4729.9	4602.6	3360.7
22.5°	7041.9	7040.5	6989.0	6911.7	6847.3	6844.5	6664.2	6146.3	5196.3	5073.3	3658.3
25°	7987.6	7991.9	7891.7	7671.4	7511.2	7315.2	7107.7	6612.7	5695.6	5544.0	3971.6
27.5°	9072.1	9044.9	8893.2	8589.9	8272.3	7937.5	7638.5	7154.9	6225.0	6099.1	4330.7
30°	10046.4	10036.4	9859.0	9488.4	9070.6	8734.4	8300.9	7834.5	6910.3	6755.8	4732.8
32.5°	10953.4	10967.8	10721.7	10338.2	9934.8	9547.1	9089.2	8484.1	7582.7	7363.8	5170.6
35°	11661.6	11676.0	11421.3	11102.2	10687.3	10365.4	9929.1	9176.5	8246.6	8062.0	5674.2
37.5°	12039.4	12057.9	11910.6	11670.2	11411.3	11249.6	10843.3	10067.8	9053.5	8941.9	6269.3
40°	12110.9	12132.3	12068.0	12003.6	11989.3	12105.2	11986.4	11118.0	10172.3	9997.7	7156.4
42.5°	11896.3	11924.9	11953.5	12096.6	12388.4	12813.4	13226.8	12543.0	11613.0	11378.4	8240.8
45°	11332.6	11329.7	11442.7	11813.3	12467.1	13374.2	14523.0	14327.0	13575.9	13296.9	9773.1
47.5°	10368.3	10354.0	10598.6	11126.6	12145.2	13477.2	15580.3	16493.1	16081.1	15823.6	11419.9
50°	8899.0	8969.1	9353.9	10090.7	11345.5	13165.3	15906.5	17913.8	18137.0	17863.7	12750.4
52.5°	7177.8	7175.0	7778.7	8778.8	10160.8	12478.6	15679.1	18171.3	18805.1	18596.3	13405.7
55°	5312.2	5349.4	5977.5	6986.1	8622.8	11225.3	14936.5	17906.7	19059.8	18912.4	13837.7
57°	3951.6	4017.4	4521.0	5588.3	7283.7	9984.9	13947.9	17433.1	19159.9	19079.8	14196.8
57.5°	3688.3	3691.2	4181.9	5152.0	6891.7	9508.4	13664.6	17235.7	19157.1	19112.7	14255.5
60°	2270.5	2342.1	2681.1	3482.3	5044.7	7421.0	11766.1	16101.1	19008.3	19072.7	14505.9
62.5°	1359.2	1389.2	1609.5	2098.8	3252.0	5416.6	9628.6	14648.9	18620.6	18816.6	14488.7
65°	874.2	881.3	981.5	1270.5	2033.0	3661.2	7419.6	12730.4	17617.7	17978.2	13922.2
67.5°	675.3	686.7	726.8	834.1	1178.9	2280.5	5247.8	10683.0	15995.2	16460.2	12548.7
70°	599.5	605.2	619.5	653.8	779.7	1287.6	3264.9	8345.3	13264.0	13395.7	9820.3
72.5°	489.3	505.0	549.4	560.8	618.1	804.1	1817.0	5601.2	8911.8	8944.7	5493.9
75°	379.1	382.0	447.8	480.7	520.8	553.7	811.2	2824.2	4280.7	4051.7	2117.4
77.5°	283.3	296.2	326.2	367.7	424.9	396.3	363.4	1064.4	1329.1	1304.8	615.2
80°	181.7	188.9	227.5	276.1	330.5	259.0	204.6	311.9	291.9	300.4	147.4
82.5°	91.6	93.0	145.9	224.6	210.3	130.2	128.8	127.3	108.7	107.3	68.7
85°	10.0	21.5	94.4	128.8	94.4	42.9	60.1	58.7	57.2	58.7	40.1
87.5°	1.4	1.4	15.7	18.6	12.9	14.3	17.2	18.6	22.9	21.5	17.2
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°	1735.4	1735.4	1735.4	1735.4	1735.4	1735.4	1735.4	1735.4	1735.4	1735.4	1735.4
2.5°	1786.9	1729.7	1623.8	1522.3	1446.4	1397.8	1334.8	1312.0	1279.0	1274.8	1259.0
5°	1864.2	1755.5	1570.9	1425.0	1307.7	1219.0	1141.7	1077.3	1025.8	1014.4	1020.1
7.5°	1974.4	1812.7	1555.2	1356.3	1193.2	1041.6	918.5	842.7	788.3	768.3	771.1
10°	2098.8	1888.5	1552.3	1283.3	1034.4	848.4	713.9	646.7	615.2	603.8	590.9
12.5°	2246.2	1975.8	1545.2	1170.3	859.9	676.7	580.9	540.8	510.8	502.2	502.2
15°	2412.2	2068.8	1510.8	1030.1	698.2	559.4	495.0	463.5	453.5	444.9	444.9
17.5°	2585.3	2160.4	1439.3	857.0	579.4	479.3	439.2	420.6	406.3	396.3	396.3
20°	2782.7	2250.5	1324.8	703.9	489.3	427.8	396.3	374.8	363.4	354.8	352.0
22.5°	2970.1	2323.5	1178.9	578.0	426.3	384.9	356.2	333.4	321.9	317.6	317.6
25°	3164.7	2367.8	1002.9	477.9	389.2	349.1	317.6	299.0	289.0	286.1	284.7
27.5°	3353.6	2393.6	848.4	417.8	354.8	316.2	286.1	271.8	261.8	259.0	260.4
30°	3582.5	2397.9	698.2	374.8	324.8	284.7	257.5	244.6	238.9	236.1	234.6
32.5°	3814.2	2392.1	586.6	349.1	296.2	257.5	234.6	224.6	220.3	216.0	216.0
35°	4074.6	2362.1	499.3	323.3	269.0	234.6	214.6	206.0	200.3	196.0	194.6
37.5°	4398.0	2346.3	449.2	294.7	244.6	213.2	194.6	186.0	181.7	176.0	174.5
40°	4907.3	2416.5	433.5	269.0	220.3	193.1	176.0	166.0	160.2	154.5	153.1
42.5°	5542.5	2539.5	407.7	243.2	198.9	174.5	157.4	145.9	135.9	128.8	125.9
45°	6365.2	2701.2	367.7	216.0	180.3	154.5	138.8	124.5	111.6	105.9	104.4
47.5°	7227.9	2857.1	331.9	194.6	160.2	137.3	120.2	104.4	93.0	88.7	87.3
50°	7757.3	2888.6	309.0	170.3	140.2	118.7	101.6	87.3	80.1	75.8	75.8
52.5°	7999.1	2838.5	277.6	148.8	121.6	104.4	87.3	75.8	71.5	68.7	67.2
55°	8167.9	2761.3	236.1	128.8	104.4	88.7	77.3	68.7	63.0	60.1	58.7
57°	8266.6	2656.8	204.6	113.0	90.1	77.3	68.7	61.5	55.8	50.1	50.1
57.5°	8270.9	2616.8	196.0	111.6	85.8	74.4	67.2	60.1	52.9	47.2	45.8
60°	8143.6	2342.1	157.4	94.4	68.7	63.0	55.8	47.2	37.2	31.5	30.0
62.5°	7734.4	1993.0	130.2	80.1	55.8	48.6	40.1	35.8	25.8	18.6	18.6
65°	7114.9	1616.7	111.6	64.4	45.8	35.8	27.2	25.8	15.7	8.6	7.2
67.5°	6219.3	1259.0	94.4	52.9	38.6	25.8	18.6	17.2	8.6	2.9	0.0
70°	4738.5	858.4	78.7	42.9	28.6	18.6	12.9	10.0	5.7	1.4	0.0
72.5°	2731.2	472.1	65.8	32.9	21.5	14.3	10.0	5.7	5.7	0.0	0.0
75°	975.7	203.2	50.1	24.3	17.2	11.4	7.2	2.9	4.3	1.4	0.0
77.5°	310.5	108.7	32.9	18.6	14.3	8.6	5.7	2.9	2.9	1.4	0.0
80°	91.6	57.2	20.0	15.7	10.0	7.2	4.3	1.4	2.9	1.4	0.0
82.5°	50.1	28.6	15.7	11.4	10.0	5.7	4.3	1.4	1.4	1.4	0.0
85°	25.8	17.2	12.9	11.4	10.0	5.7	4.3	1.4	0.0	1.4	1.4
87.5°	14.3	12.9	12.9	11.4	10.0	7.2	4.3	1.4	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)