

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: P651471

Luminaire Tested: **GALN-SA6D-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651471
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-SA6D-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA 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: 25515.1 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

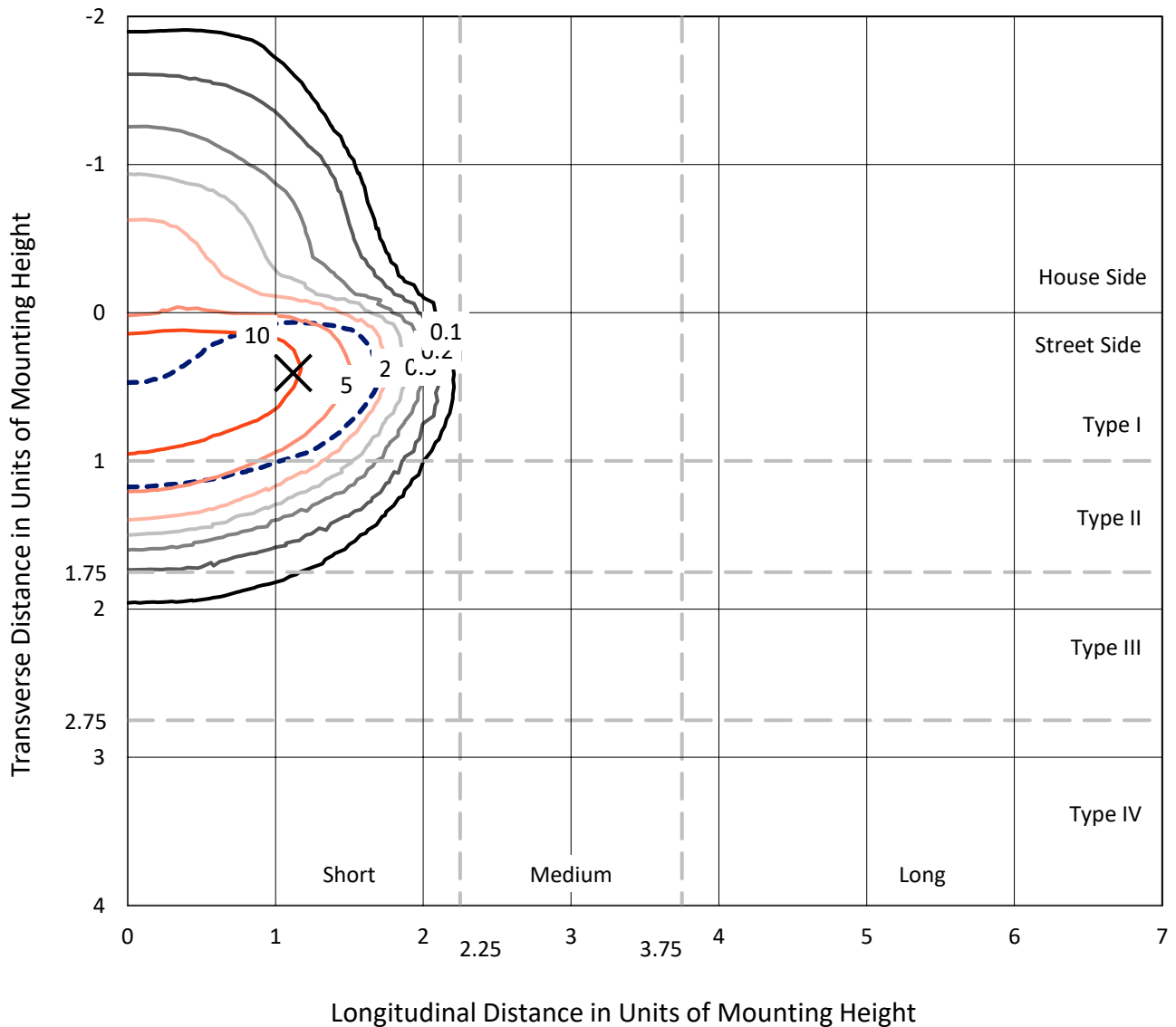
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

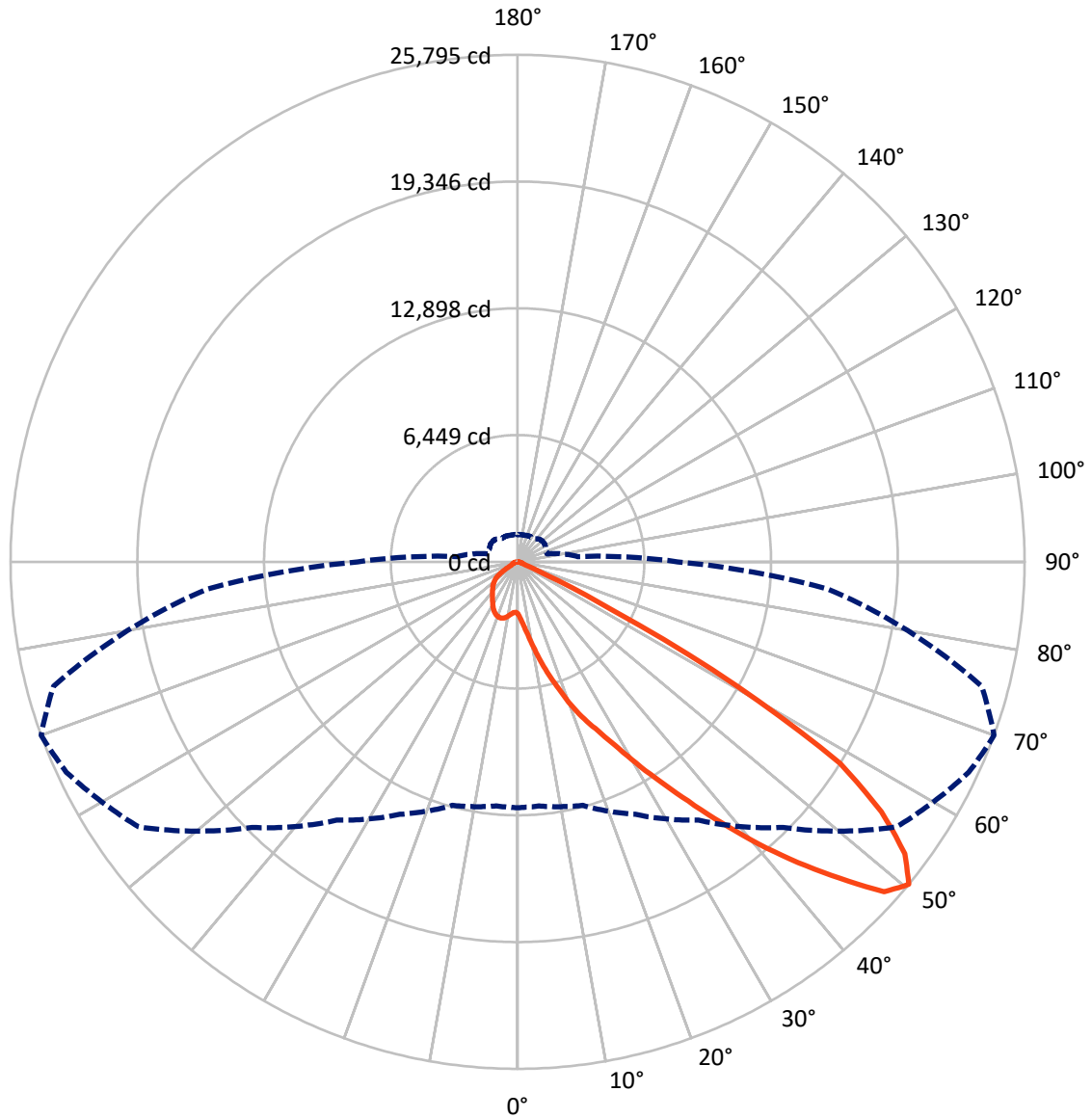
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 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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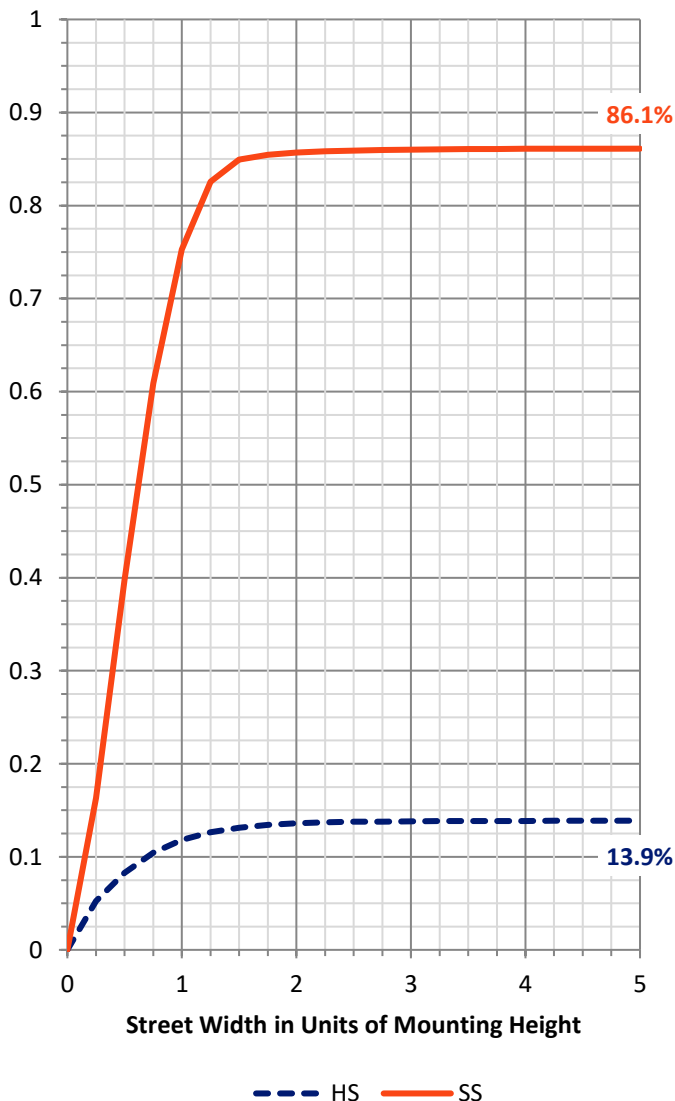
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3563.4	0.0	3563.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	21951.7	0.0	21951.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	25515.1	0.0	25515.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.7	1.3
10°-20°	1486.6	5.8
20°-30°	3118.6	12.2
30°-40°	5375.4	21.1
40°-50°	7856.2	30.8
50°-60°	6118.7	24.0
60°-70°	1036.7	4.1
70°-80°	142.4	0.6
80°-90°	36.9	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°	25515.1	100.0
0°-180°	25515.1	100.0

Coefficient of Utilization



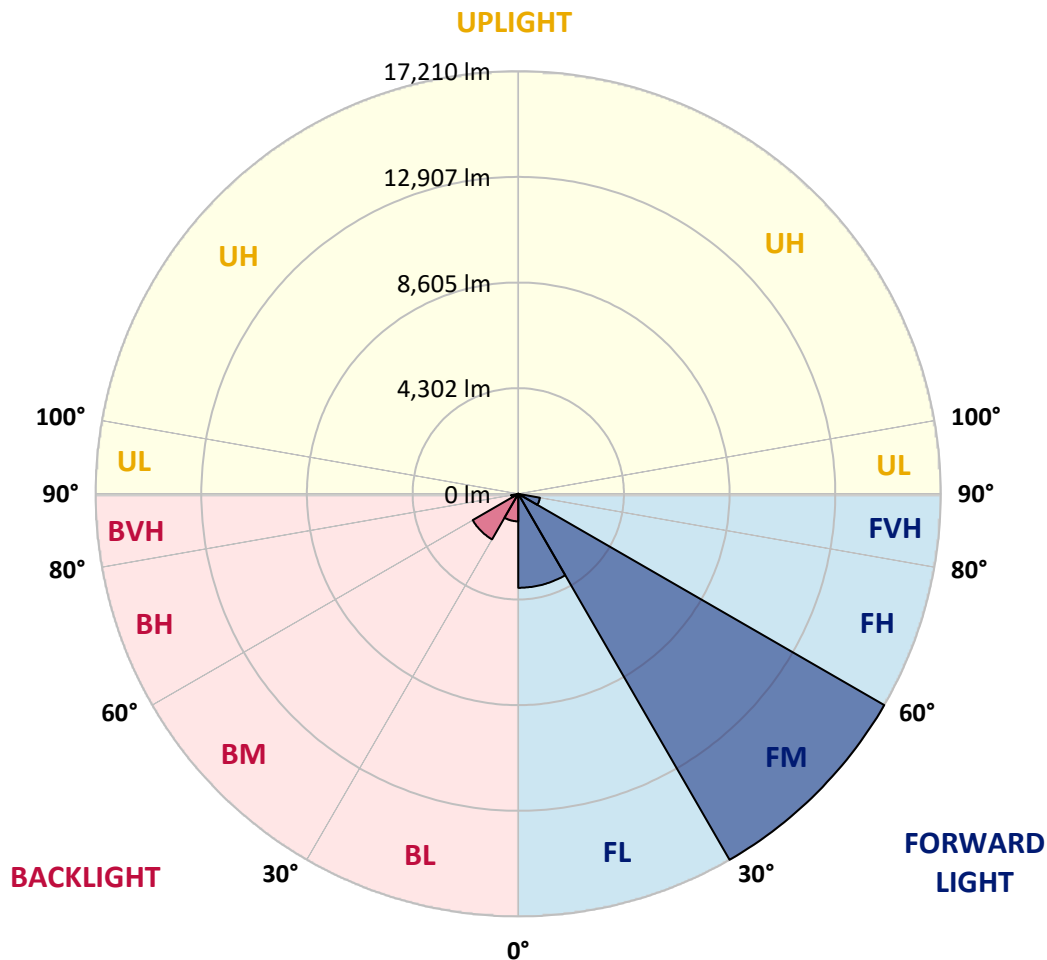
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3827.6	15.0			
FM (30°-60°)	17209.5	67.4			
FH (60°-80°)	897.6	3.5			G1/1800
FVH (80°-90°)	17.1	0.1			G1/100
BL (0°-30°)	1121.3	4.4	B3/2500		
BM (30°-60°)	2140.7	8.4	B2/2500		
BH (60°-80°)	281.5	1.1	B1/500		G1/500
BVH (80°-90°)	19.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8
2.5°	3460.9	3435.7	3381.2	3280.5	3238.5	3137.9	3079.2	2965.9	2894.6	2814.8	2726.8
5°	4874.6	4744.6	4664.9	4551.6	4220.2	4014.6	3674.8	3385.4	3251.1	3104.3	2903.0
7.5°	6334.5	6250.6	6141.5	5898.2	5671.7	5243.8	4660.7	4023.0	3750.4	3498.6	3100.1
10°	7542.7	7307.7	7295.2	7114.8	6867.3	6355.4	5654.9	4862.0	4375.4	4006.3	3381.2
12.5°	8385.9	8171.9	8268.4	8247.4	8016.7	7546.8	6737.2	5688.4	5180.8	4606.2	3670.6
15°	9153.5	9065.5	9036.0	9010.9	8918.6	8570.5	7844.7	6695.3	5961.1	5268.9	3997.9
17.5°	9904.5	9677.9	9787.0	9808.0	9799.6	9485.0	8805.4	7651.8	6787.5	5969.5	4341.8
20°	10571.5	10592.4	10445.6	10416.2	10391.1	10378.4	9715.7	8599.8	7802.7	6703.6	4790.7
22.5°	11427.3	11280.4	11410.4	11326.6	11162.9	11062.3	10554.6	9438.8	8683.7	7588.8	5248.0
25°	12438.2	12555.7	12249.4	12215.9	12035.5	11687.3	11230.0	10378.4	9531.1	8411.0	5743.0
27.5°	13684.2	13478.6	13398.9	13214.3	12887.1	12740.3	12203.3	11347.5	10554.6	9275.2	6221.2
30°	14753.9	14699.3	14300.8	14082.7	13797.4	13793.2	13042.3	12660.6	11888.7	10630.2	6879.8
32.5°	15626.5	15387.4	15240.5	15089.5	14858.8	14921.7	14288.3	14086.8	13310.8	11888.7	7655.9
35°	16209.5	16037.5	15949.5	15718.7	15651.6	15932.7	15668.4	15584.5	14946.8	13659.0	8566.3
37.5°	16394.1	16448.7	16431.9	16142.4	16285.0	17044.4	17384.1	17166.0	16830.4	15525.8	9552.1
40°	16557.8	16595.5	16511.6	16851.4	17258.3	18122.5	19351.7	18990.9	18865.0	17417.7	10923.8
42.5°	16650.0	16620.7	16620.7	17208.0	17824.7	19561.4	21252.0	21012.9	20916.3	19431.3	12509.5
45°	16251.5	15966.2	16272.5	17069.5	18311.3	20270.4	22770.6	23101.9	22963.5	21826.6	14363.8
47.5°	14762.2	14938.4	15110.5	16176.0	17719.8	20052.2	23701.8	24830.4	25086.2	23840.3	15580.3
50°	12509.5	12471.8	12828.4	14170.8	16045.9	19112.5	23521.5	25329.5	25795.2	24444.3	15836.2
52.5°	9099.0	9375.9	9761.8	11095.8	13319.2	16679.4	21193.2	24041.7	24662.5	23701.8	15668.4
55°	5298.3	4992.1	5860.4	6988.9	9086.4	12580.9	17916.9	21310.7	22460.2	22351.1	14821.0
57.5°	2122.7	2055.6	2353.4	3171.4	4740.4	7798.5	13029.7	17510.0	19351.7	20471.7	13025.5
60°	931.3	910.3	1069.8	1292.0	1938.1	3595.1	7127.3	10890.3	12811.6	14305.0	8964.7
62.5°	671.2	662.8	742.5	822.2	1023.6	1564.8	2995.2	4388.0	5470.3	6607.1	4014.6
65°	541.2	562.1	616.7	658.6	755.1	868.3	1057.1	1220.7	1497.7	1552.1	885.2
67.5°	440.5	457.3	507.6	553.7	570.5	469.9	486.6	427.9	427.9	381.7	306.2
70°	323.0	327.2	385.9	440.5	352.4	188.8	331.4	331.4	297.9	285.3	260.1
72.5°	239.1	243.3	289.5	272.7	138.4	117.5	243.3	268.4	243.3	230.7	209.7
75°	176.2	180.4	151.0	62.9	58.7	75.5	142.6	184.6	176.2	172.0	159.4
77.5°	33.6	25.1	20.9	29.4	42.0	62.9	92.3	113.3	117.5	125.8	117.5
80°	4.2	4.2	12.6	25.1	46.2	67.1	96.5	109.1	113.3	117.5	109.1
82.5°	0.0	4.2	12.6	25.1	46.2	62.9	83.9	96.5	104.9	109.1	104.9
85°	0.0	4.2	8.4	20.9	37.8	46.2	42.0	29.4	25.1	29.4	20.9
87.5°	0.0	0.0	4.2	4.2	8.4	8.4	8.4	8.4	8.4	8.4	8.4
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°	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8	2642.8
2.5°	2676.4	2659.7	2600.9	2538.0	2483.5	2508.6	2483.5	2462.4	2470.9	2462.4	2454.1
5°	2823.2	2747.7	2621.9	2567.3	2521.2	2517.0	2504.4	2500.2	2504.4	2504.4	2466.7
7.5°	2961.7	2840.1	2705.7	2647.0	2592.6	2596.8	2567.3	2567.3	2563.1	2542.2	2533.8
10°	3171.4	3007.8	2835.9	2731.0	2663.9	2651.3	2621.9	2592.6	2592.6	2592.6	2550.6
12.5°	3402.2	3196.6	2961.7	2840.1	2760.3	2697.4	2651.3	2642.8	2596.8	2588.3	2567.3
15°	3603.5	3343.4	3045.6	2877.8	2777.1	2693.2	2621.9	2575.7	2554.8	2542.2	2525.4
17.5°	3800.6	3469.3	3091.8	2877.8	2768.7	2672.2	2596.8	2554.8	2504.4	2512.8	2479.3
20°	4065.0	3603.5	3104.3	2823.2	2689.0	2596.8	2496.0	2475.1	2445.7	2420.6	2428.9
22.5°	4320.9	3700.0	3066.5	2756.1	2563.1	2454.1	2403.7	2378.6	2366.0	2345.0	2315.6
25°	4551.6	3804.9	3007.8	2634.4	2428.9	2349.2	2303.1	2298.9	2269.5	2269.5	2214.9
27.5°	4786.6	3842.6	2907.2	2491.9	2311.5	2265.3	2244.4	2236.0	2223.4	2194.0	2156.2
30°	5055.0	3855.2	2760.3	2345.0	2206.6	2156.2	2185.6	2206.6	2152.0	2097.5	2114.3
32.5°	5277.4	3825.9	2584.1	2206.6	2131.1	2105.9	2164.6	2185.6	2122.7	2064.0	2034.5
35°	5545.8	3754.6	2412.2	2097.5	2055.6	2105.9	2156.2	2156.2	2030.4	1959.1	1942.3
37.5°	5952.8	3674.8	2252.7	2005.2	1975.8	2080.7	2147.8	2101.7	1904.5	1816.5	1795.5
40°	6389.0	3624.5	2097.5	1912.9	1933.9	2038.8	2076.5	1933.9	1732.5	1678.0	1661.2
42.5°	7022.4	3523.8	1959.1	1833.2	1896.1	1980.1	1980.1	1724.1	1648.6	1619.3	1615.1
45°	7811.1	3452.5	1837.4	1766.1	1841.6	1862.6	1795.5	1615.1	1560.6	1552.1	1556.4
47.5°	8197.1	3314.0	1711.6	1686.4	1741.0	1745.2	1569.0	1527.0	1480.8	1468.2	1459.9
50°	8138.4	3066.5	1547.9	1581.5	1657.0	1615.1	1430.5	1438.9	1396.9	1392.8	1371.8
52.5°	7727.2	2676.4	1384.4	1464.1	1547.9	1426.3	1317.3	1308.8	1308.8	1254.4	1233.3
55°	6850.4	2156.2	1187.2	1287.9	1388.6	1199.8	1170.4	1162.0	1141.1	1090.7	1078.1
57.5°	5424.2	1581.5	893.6	1002.6	1178.8	1019.4	1015.2	977.4	922.9	885.2	885.2
60°	3226.0	910.3	562.1	612.5	780.3	826.5	918.7	901.9	809.6	750.9	734.1
62.5°	1472.4	469.9	356.6	365.0	419.5	537.0	721.6	834.8	704.8	604.1	595.7
65°	495.0	348.2	293.7	281.1	289.5	323.0	432.1	591.5	562.1	465.7	448.8
67.5°	302.0	310.4	276.9	255.9	255.9	251.7	247.5	268.4	331.4	323.0	327.2
70°	260.1	285.3	255.9	230.7	222.4	209.7	176.2	146.8	125.8	146.8	155.2
72.5°	209.7	226.6	218.2	197.1	176.2	159.4	125.8	96.5	71.3	62.9	62.9
75°	155.2	167.8	176.2	151.0	134.2	113.3	92.3	62.9	37.8	25.1	25.1
77.5°	113.3	125.8	130.0	117.5	100.7	79.7	58.7	42.0	20.9	8.4	8.4
80°	96.5	113.3	125.8	117.5	104.9	75.5	54.5	29.4	16.8	4.2	4.2
82.5°	92.3	113.3	125.8	113.3	100.7	71.3	54.5	33.6	12.6	4.2	4.2
85°	20.9	29.4	37.8	46.2	54.5	54.5	42.0	25.1	12.6	4.2	4.2
87.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	4.2	4.2	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)