

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: P530268

Luminaire Tested: **GALN-SA5C-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24697 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

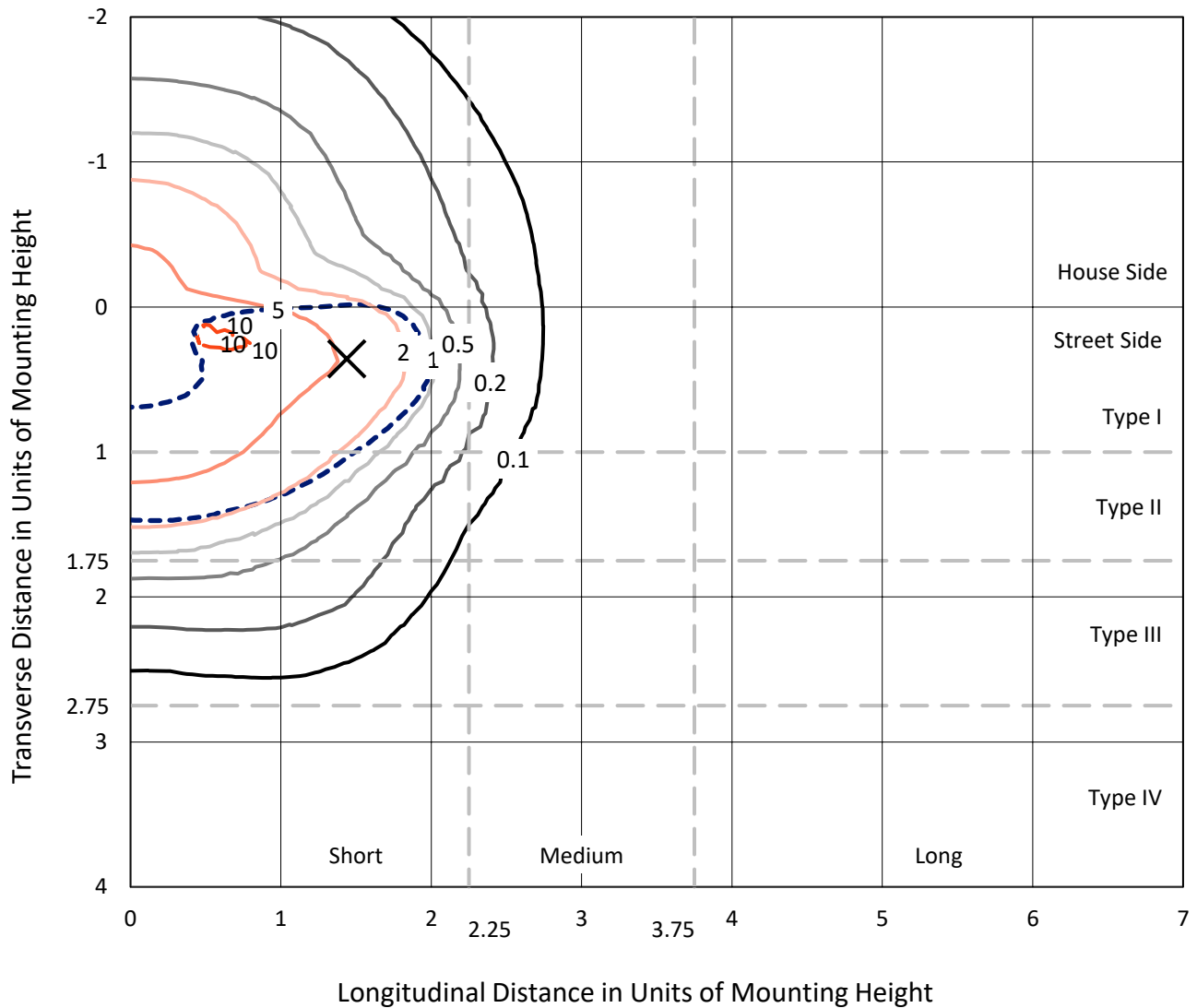
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

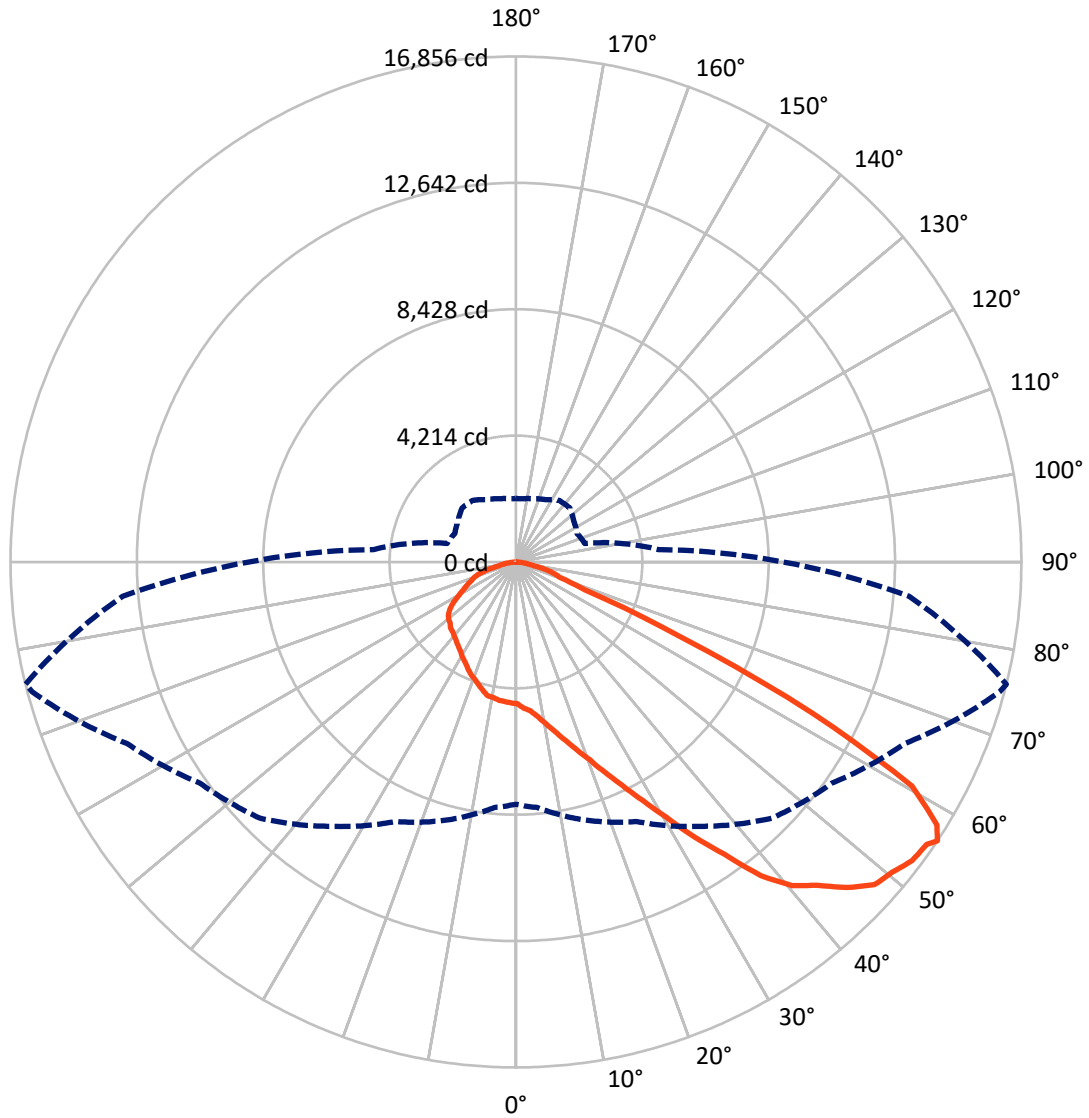
✕ Max cd
 - - - 1/2 Max cd



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

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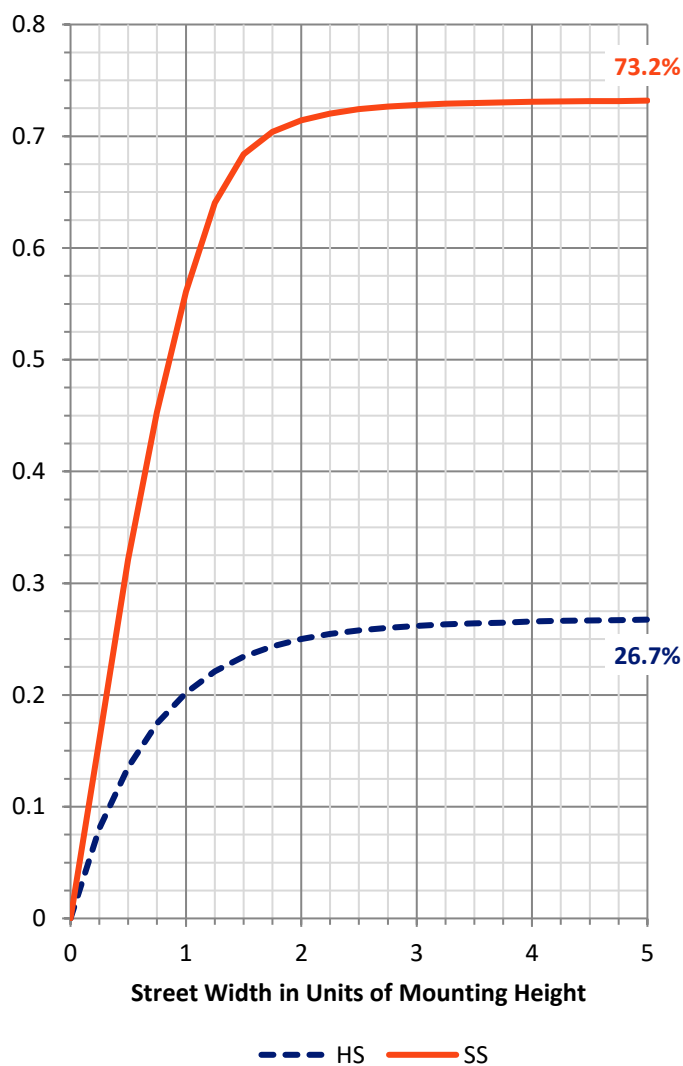
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6640.3	0.0	6640.3
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	18056.7	0.0	18056.7
	% Fixture	73.1	0.0	73.1
Total	Lumens	24697.0	0.0	24697.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.6	1.9
10°-20°	1472.1	6.0
20°-30°	2574.5	10.4
30°-40°	4030.9	16.3
40°-50°	5863.8	23.7
50°-60°	6444.7	26.1
60°-70°	2876.6	11.6
70°-80°	830.9	3.4
80°-90°	134.8	0.5
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°	24697.0	100.0
0°-180°	24697.0	100.0

Coefficient of Utilization



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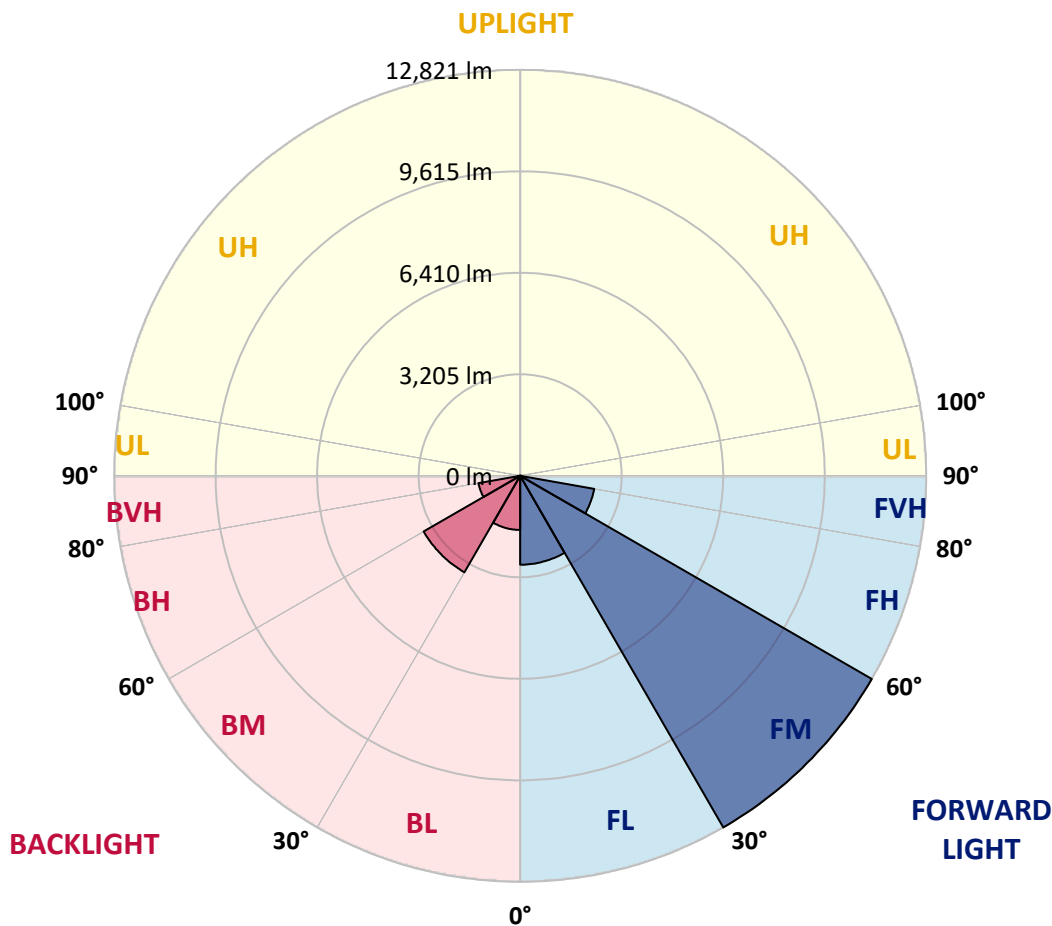
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2806.5	11.4			
FM (30°-60°)	12820.7	51.9			
FH (60°-80°)	2371.5	9.6			G2/5000
FVH (80°-90°)	58.0	0.2			G1/100
BL (0°-30°)	1708.7	6.9	B3/2500		
BM (30°-60°)	3518.8	14.2	B3/5000		
BH (60°-80°)	1336.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	76.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5
2.5°	5205.7	5122.4	5116.0	5093.6	5106.4	5048.8	4988.0	4907.9	4824.7	4875.9	4754.3
5°	5570.7	5458.6	5503.4	5426.6	5436.2	5359.4	5234.5	5141.7	5039.2	4978.4	4891.9
7.5°	5698.7	5708.3	5740.3	5727.5	5663.5	5663.5	5580.3	5417.0	5237.7	5202.5	5058.4
10°	5871.6	5874.8	5839.6	5849.2	5938.8	5897.2	5823.6	5753.1	5522.6	5481.0	5224.9
12.5°	5932.4	5874.8	5932.4	5983.7	6089.3	6146.9	6130.9	6079.7	5833.2	5804.4	5429.8
15°	5942.0	5906.8	5954.8	6070.1	6162.9	6406.3	6527.9	6492.7	6166.1	6169.3	5660.3
17.5°	5897.2	5945.2	5964.4	6063.7	6278.2	6505.5	6857.7	6905.7	6636.8	6595.1	5951.6
20°	5958.0	5922.8	5948.4	6038.1	6323.0	6678.4	7139.4	7456.4	7078.6	7049.8	6252.6
22.5°	6191.8	6143.7	6137.3	6195.0	6399.9	6768.0	7437.1	8007.0	7616.4	7632.4	6627.2
25°	6374.2	6399.9	6377.4	6374.2	6502.3	6902.5	7830.9	8663.3	8346.4	8253.5	7069.0
27.5°	6688.0	6748.8	6704.0	6764.8	6736.0	7104.2	8112.7	9390.1	9134.0	9009.1	7469.2
30°	7123.4	7155.4	7113.8	7113.8	7027.4	7385.9	8368.8	10148.8	10043.2	9873.5	7939.8
32.5°	7696.5	7744.5	7661.3	7613.2	7600.4	7805.3	8829.8	10898.0	11077.3	10933.2	8564.1
35°	8455.2	8426.4	8327.2	8282.4	8109.5	8448.8	9514.9	11759.2	12229.8	11973.7	9319.6
37.5°	9124.4	9079.5	9073.1	8823.4	8865.0	9143.6	10097.6	12412.3	13347.2	13273.5	10116.8
40°	9748.6	9790.3	9857.5	9716.6	9652.6	9960.0	10776.3	12911.8	14214.8	14186.0	10731.5
42.5°	10417.8	10379.4	10497.8	10379.4	10283.3	10718.7	11512.7	13257.5	14976.7	14739.8	11375.0
45°	11387.8	11266.2	11307.8	11317.4	11247.0	11407.0	11816.8	13507.2	15511.4	15485.8	11845.6
47.5°	12197.8	12201.0	12130.6	12076.2	11861.7	12021.7	12156.2	13664.1	16126.1	16084.5	12028.1
50°	12498.8	12457.1	12662.0	12780.5	12793.3	12466.7	12421.9	13750.6	16449.4	16267.0	12210.6
52.5°	11416.6	11455.1	11778.4	12482.8	12889.3	12924.6	12732.5	13929.8	16580.7	16542.3	12357.9
55°	9188.4	9374.1	9905.5	10718.7	11682.4	12742.1	13068.6	14115.5	16651.1	16619.1	13011.0
56°	8077.5	8221.5	8913.1	9550.2	10760.3	12079.4	12857.3	14314.0	16705.6	16856.0	13164.7
57.5°	6502.3	6668.8	7165.0	7888.6	9316.4	10818.0	12274.7	14070.7	16494.3	16551.9	13276.7
60°	4065.9	4081.9	4677.4	5154.5	6159.7	7626.0	9367.7	12242.6	15264.9	15181.6	11925.7
62.5°	2666.9	2670.1	3211.1	3601.7	4059.5	4395.7	5513.0	8119.1	11263.0	11115.7	8490.4
65°	1872.9	1914.5	2333.9	2855.8	3041.5	2865.4	2830.1	4280.4	6291.0	6079.7	4562.2
67.5°	1370.3	1373.5	1744.8	2305.1	2574.0	2180.2	1770.4	2090.6	2490.8	2484.4	2113.0
70°	906.0	944.5	1229.4	1722.4	2029.8	1751.2	1447.1	1495.1	1584.8	1584.8	1571.9
72.5°	528.3	563.5	752.4	1091.7	1139.7	1094.9	1146.1	1280.6	1338.2	1335.0	1319.0
75°	300.9	317.0	358.6	454.6	566.7	669.1	842.0	970.1	1027.7	1062.9	1021.3
77.5°	176.1	185.7	211.3	259.3	294.5	361.8	457.8	547.5	624.3	614.7	621.1
80°	92.8	92.8	118.5	153.7	204.9	256.1	304.1	355.4	397.0	406.6	416.2
82.5°	54.4	57.6	76.8	112.1	147.3	182.5	233.7	268.9	307.3	310.5	317.0
85°	28.8	32.0	48.0	73.6	99.2	112.1	115.3	108.9	118.5	112.1	128.1
87.5°	9.6	9.6	16.0	12.8	12.8	16.0	19.2	19.2	25.6	25.6	25.6
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°	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5
2.5°	4751.1	4751.1	4696.6	4594.2	4578.2	4536.6	4498.1	4494.9	4466.1	4440.5	4427.7
5°	4840.7	4741.5	4661.4	4568.6	4459.7	4408.5	4350.9	4286.8	4261.2	4286.8	4283.6
7.5°	4943.2	4859.9	4619.8	4446.9	4322.1	4270.8	4206.8	4139.6	4146.0	4146.0	4101.2
10°	5042.4	4930.4	4546.2	4325.3	4142.8	4104.4	4069.1	4094.8	4126.8	4133.2	4104.4
12.5°	5208.9	4956.0	4511.0	4203.6	4088.3	4005.1	4027.5	4098.0	4165.2	4146.0	4168.4
15°	5333.7	4978.4	4350.9	4078.7	3934.7	3973.1	4053.1	4101.2	4213.2	4200.4	4222.8
17.5°	5455.4	4991.2	4194.0	3912.3	3851.4	3957.1	4017.9	4155.6	4190.8	4267.6	4296.4
20°	5705.1	5016.8	4033.9	3809.8	3790.6	3912.3	4017.9	4081.9	4158.8	4226.0	4226.0
22.5°	5833.2	5004.0	3928.3	3675.4	3736.2	3813.0	3909.1	4017.9	4017.9	4081.9	4085.1
25°	5993.3	4952.8	3761.8	3611.3	3656.1	3729.8	3838.6	3800.2	3841.8	3841.8	3893.1
27.5°	6175.7	4843.9	3617.7	3496.1	3585.7	3665.7	3681.8	3656.1	3608.1	3601.7	3582.5
30°	6323.0	4709.4	3512.1	3457.6	3531.3	3576.1	3524.9	3470.5	3387.2	3380.8	3336.0
32.5°	6524.7	4543.0	3380.8	3361.6	3444.8	3448.0	3432.0	3348.8	3227.1	3175.9	3124.7
35°	6864.1	4446.9	3281.6	3310.4	3336.0	3326.4	3297.6	3207.9	3086.3	3063.9	3044.7
37.5°	7113.8	4376.5	3179.1	3214.3	3236.7	3249.5	3163.1	3063.9	3067.1	3022.2	3009.4
40°	7395.5	4331.7	3095.9	3111.9	3115.1	3156.7	3051.1	3003.0	3025.4	2996.6	3015.8
42.5°	7757.3	4344.5	3009.4	2996.6	3057.5	3041.5	2990.2	2926.2	2939.0	2852.6	2865.4
45°	7949.4	4430.9	2958.2	2900.6	2967.8	2964.6	2897.4	2836.6	2759.7	2593.2	2599.6
47.5°	8077.5	4453.3	2836.6	2798.1	2868.6	2910.2	2833.4	2692.5	2583.6	2465.2	2436.4
50°	8208.7	4494.9	2778.9	2698.9	2727.7	2826.9	2730.9	2596.4	2490.8	2385.1	2401.1
52.5°	8324.0	4575.0	2666.9	2548.4	2599.6	2708.5	2657.3	2494.0	2378.7	2292.3	2266.7
55°	8836.2	4754.3	2478.0	2324.3	2446.0	2583.6	2554.8	2356.3	2231.5	2186.6	2180.2
56°	8916.3	4760.7	2378.7	2247.5	2359.5	2542.0	2506.8	2295.5	2183.4	2113.0	2116.2
57.5°	8929.1	4683.8	2237.9	2177.0	2273.1	2481.2	2436.4	2247.5	2093.8	2029.8	2010.6
60°	7856.5	3656.1	2061.8	2023.4	2135.4	2295.5	2279.5	2116.2	1943.3	1869.7	1904.9
62.5°	5356.2	2679.7	1924.1	1917.7	1975.3	2132.2	2090.6	1943.3	1799.3	1751.2	1728.8
65°	3118.3	2033.0	1789.7	1764.0	1812.1	1895.3	1924.1	1770.4	1620.0	1588.0	1578.4
67.5°	1840.9	1680.8	1616.8	1575.2	1559.1	1610.4	1632.8	1543.1	1392.7	1347.8	1386.3
70°	1539.9	1495.1	1498.3	1427.9	1389.5	1354.2	1335.0	1255.0	1130.1	1072.5	1056.5
72.5°	1328.6	1309.4	1296.6	1232.6	1197.4	1117.3	1034.1	954.1	861.2	813.2	816.4
75°	1014.9	1008.5	1014.9	982.9	922.0	858.0	781.2	678.7	608.3	547.5	560.3
77.5°	605.1	624.3	633.9	621.1	595.5	537.9	489.8	422.6	355.4	307.3	300.9
80°	416.2	432.2	448.2	432.2	406.6	365.0	313.7	262.5	214.5	188.9	182.5
82.5°	317.0	333.0	342.6	326.6	294.5	249.7	214.5	179.3	140.9	115.3	108.9
85°	115.3	131.3	128.1	153.7	166.5	160.1	137.7	105.7	80.0	57.6	54.4
87.5°	32.0	28.8	32.0	32.0	32.0	28.8	25.6	25.6	25.6	16.0	12.8
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)