

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: P530378

Luminaire Tested: **GALN-SA5C-750-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-750-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30734 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

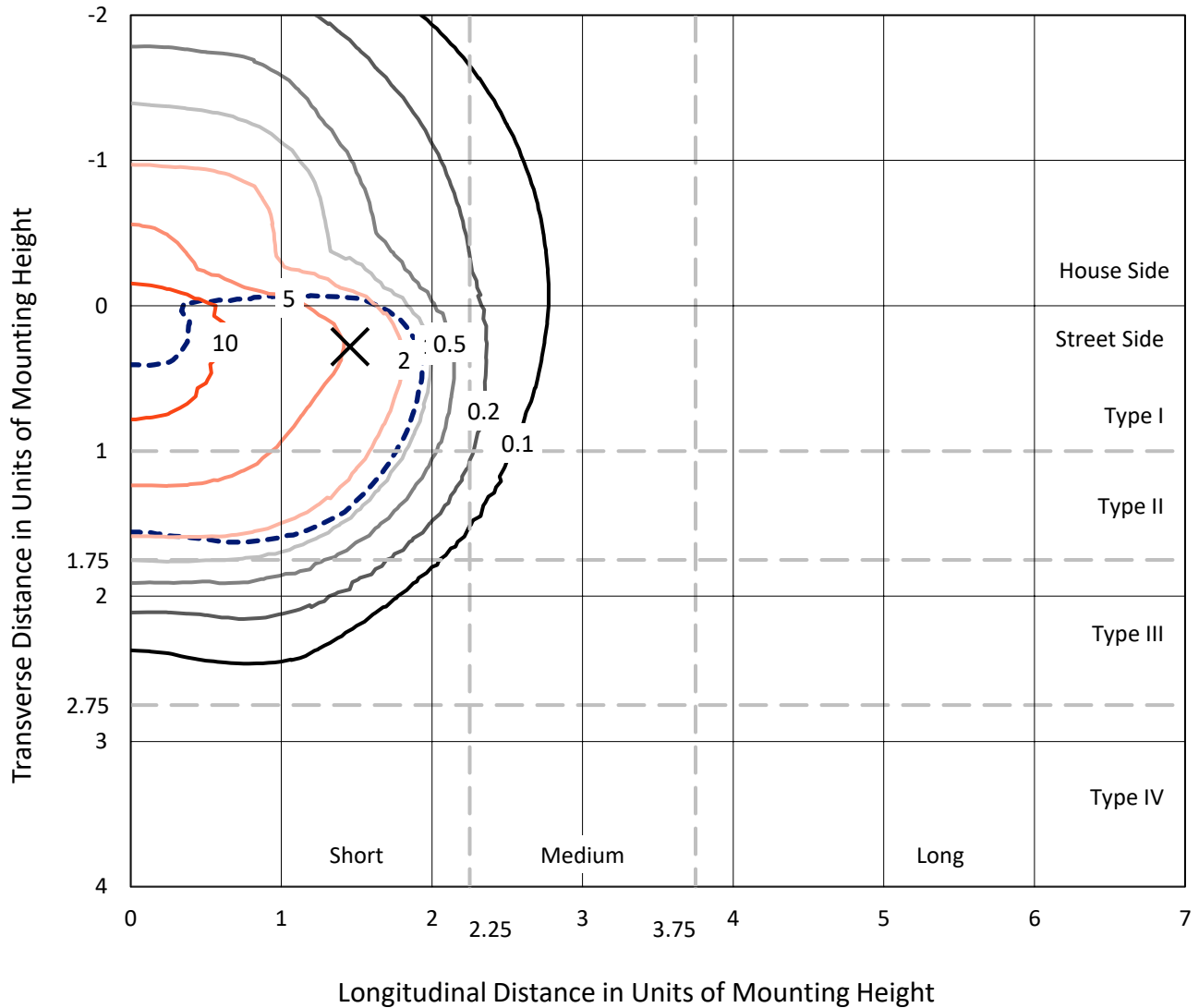
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

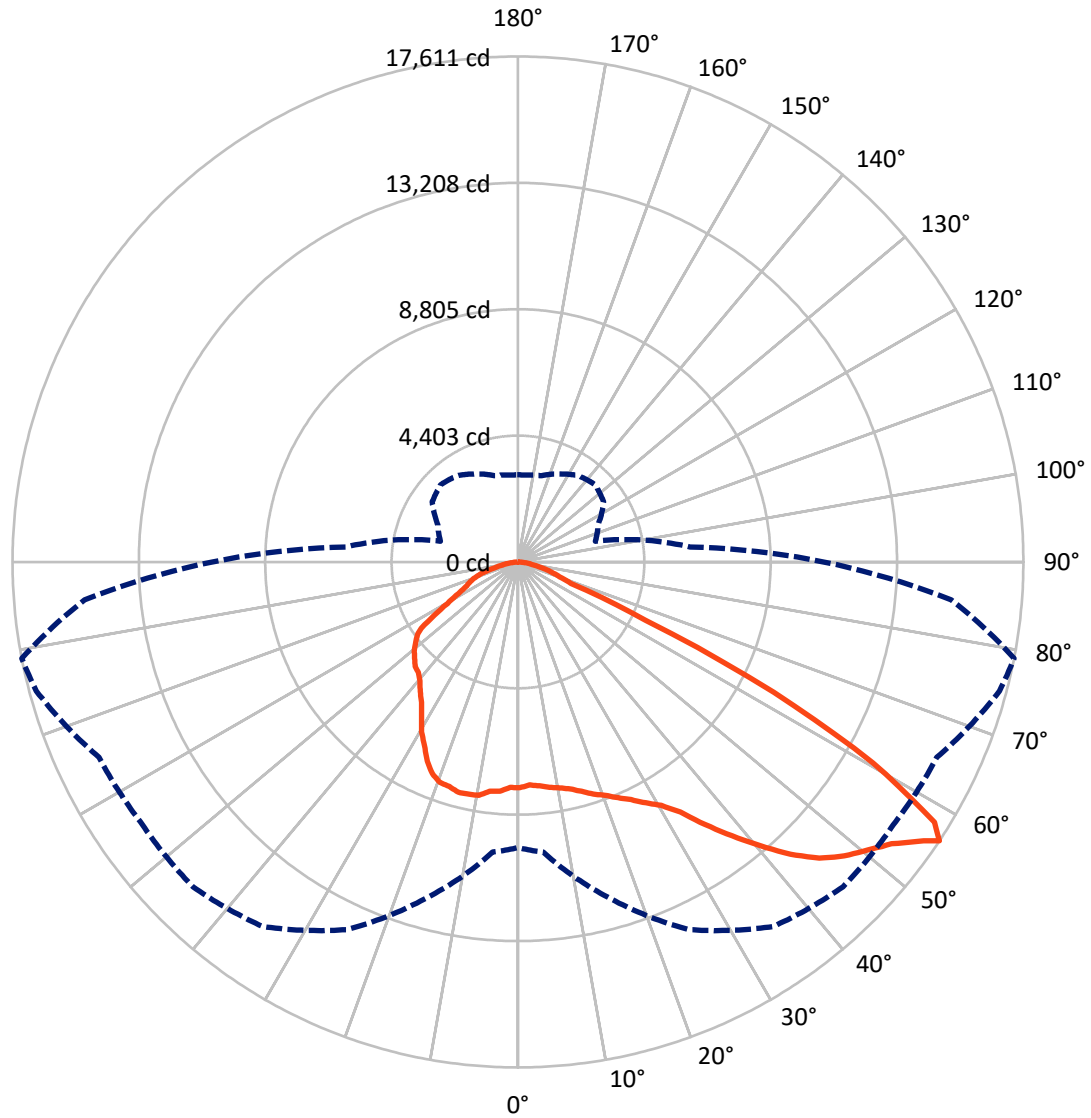
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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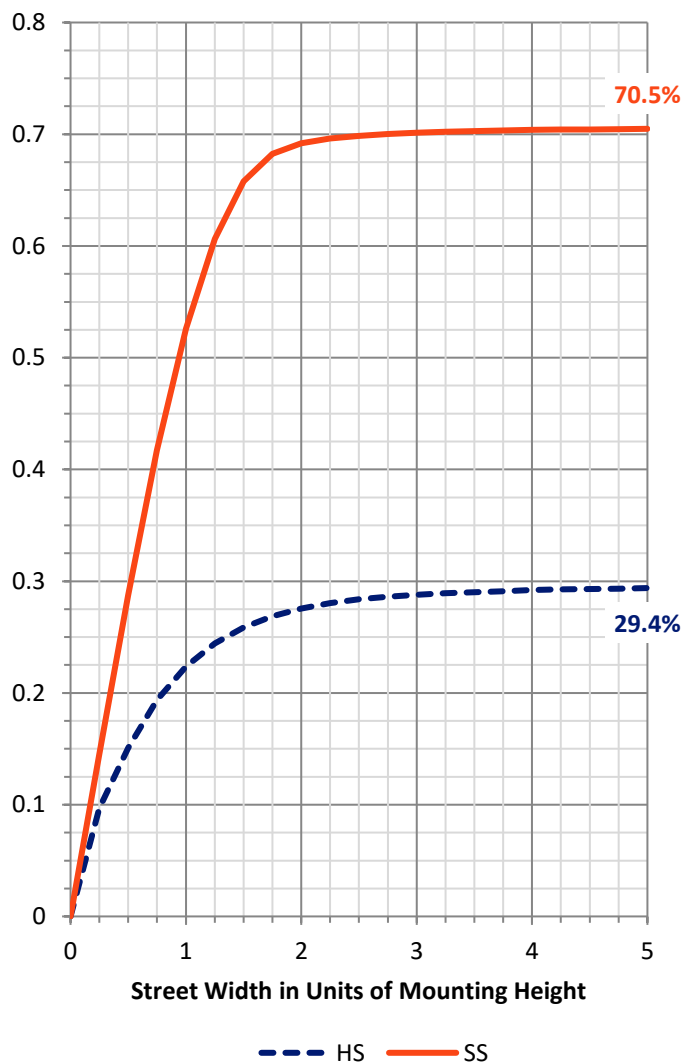
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9076.4	0.0	9076.4
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	21657.6	0.0	21657.6
	% Fixture	70.5	0.0	70.5
Total	Lumens	30734.0	0.0	30734.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.0	2.3
10°-20°	1956.6	6.4
20°-30°	3347.4	10.9
30°-40°	5130.3	16.7
40°-50°	6933.6	22.6
50°-60°	7963.5	25.9
60°-70°	3630.0	11.8
70°-80°	895.0	2.9
80°-90°	162.7	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°	30734.0	100.0
0°-180°	30734.0	100.0

Coefficient of Utilization



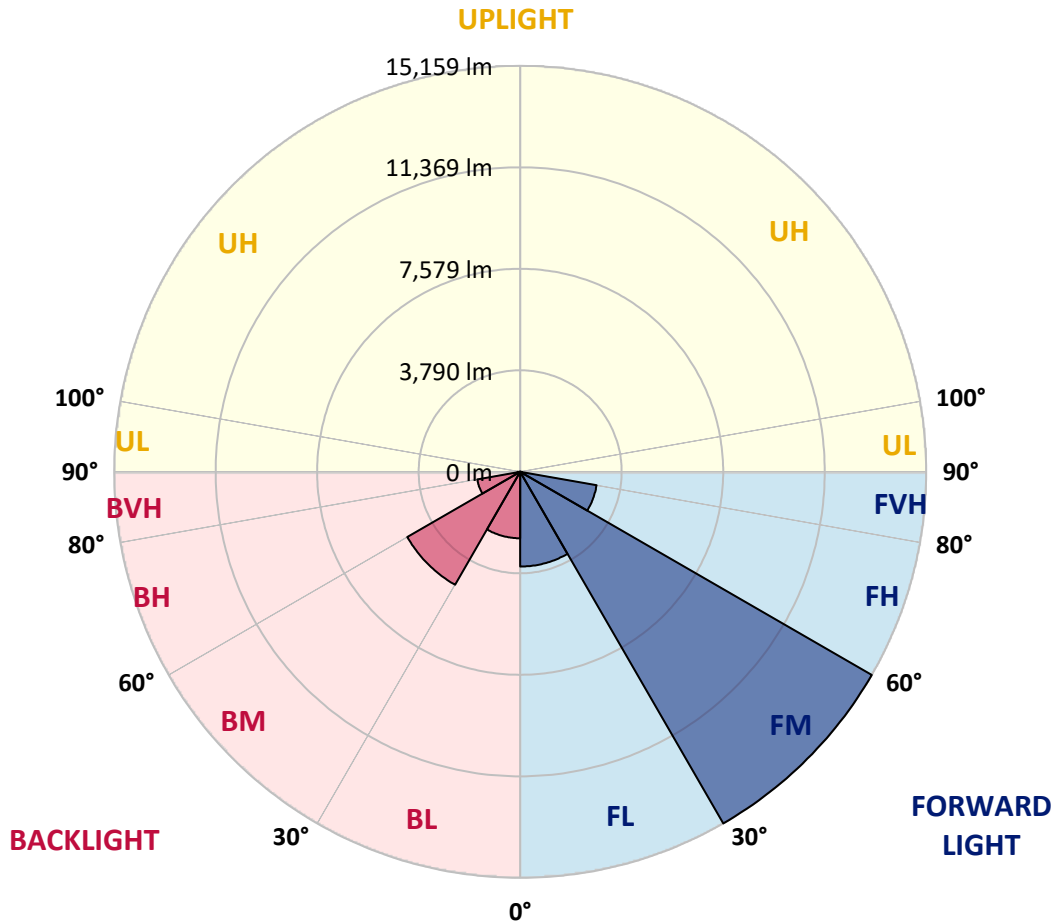
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3536.2	11.5			
FM (30°-60°)	15158.9	49.3			
FH (60°-80°)	2897.5	9.4			G2/5000
FVH (80°-90°)	64.9	0.2			G1/100
BL (0°-30°)	2482.8	8.1	B3/2500		
BM (30°-60°)	4868.5	15.8	B3/5000		
BH (60°-80°)	1627.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	97.7	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°	79°	85°
0°	7863.6	7863.6	7863.6	7863.6	7863.6	7863.6	7863.6	7863.6	7863.6	7863.6	7863.6
2.5°	7480.8	7461.6	7507.6	7542.0	7584.1	7637.7	7664.5	7679.8	7813.8	7779.4	7882.8
5°	7320.0	7270.2	7304.7	7331.5	7404.2	7469.3	7542.0	7656.9	7779.4	7833.0	7959.3
7.5°	7178.3	7151.5	7143.9	7163.0	7262.5	7346.8	7473.1	7641.6	7840.6	7928.7	8001.4
10°	6944.8	6906.5	6963.9	7090.3	7117.1	7293.2	7438.7	7679.8	7852.1	8005.3	8219.7
12.5°	6841.4	6803.1	6814.6	6887.4	7075.0	7243.4	7415.7	7687.5	8051.2	8112.5	8399.6
15°	7006.0	6967.8	6979.2	6960.1	7140.0	7228.1	7499.9	7840.6	8189.0	8292.4	8598.7
17.5°	7381.2	7385.1	7335.3	7293.2	7251.1	7438.7	7626.3	7932.5	8242.6	8503.0	8732.7
20°	8097.1	7970.8	7871.3	7633.9	7568.8	7649.2	7886.6	8181.4	8460.9	8675.2	8935.6
22.5°	8648.4	8659.9	8518.3	8127.8	7986.1	8020.6	8223.5	8464.7	8771.0	8924.1	9222.7
25°	9448.6	9368.2	9215.1	8904.9	8587.2	8614.0	8763.3	8981.5	9065.7	9172.9	9498.4
27.5°	10179.8	10202.8	9900.3	9609.4	9215.1	9138.5	9406.5	9444.8	9303.1	9506.0	9617.0
30°	10922.5	10903.4	10704.3	10363.6	9976.9	9992.2	10110.9	9923.3	9728.1	9839.1	9915.7
32.5°	11692.1	11473.8	11466.2	11159.9	10865.1	10723.5	10578.0	10669.9	10367.4	10390.4	10317.6
35°	12308.4	12339.1	12163.0	11944.7	11799.2	11550.4	11152.2	11316.9	11259.4	11232.6	10918.7
37.5°	12756.4	12637.7	12725.7	12653.0	12515.2	12205.1	11791.6	11948.6	11975.4	12105.5	11741.8
40°	13123.9	13074.1	13307.7	13345.9	13250.2	12580.3	11837.5	12304.6	12706.6	12989.9	12557.3
42.5°	13300.0	13407.2	13652.2	13947.0	13732.6	13016.7	12074.9	12576.4	13472.3	13920.2	13330.6
45°	13537.4	13399.5	13763.2	14303.0	14306.9	13384.2	12304.6	12944.0	14069.5	14720.3	13858.9
47.5°	13296.2	13365.1	13740.3	14425.6	14601.7	13770.9	12924.8	13464.6	14728.0	15306.1	14349.0
50°	12756.4	12894.2	13579.5	14291.6	14823.7	14180.5	13636.9	14027.4	15336.7	15777.0	14429.4
52.5°	12193.6	12270.1	13342.1	14394.9	14923.3	14708.9	14590.2	14804.6	16079.4	16309.1	14528.9
55°	10662.2	11025.9	12557.3	14349.0	15409.5	15662.1	15570.3	15884.2	16921.7	17151.4	15072.6
56°	9953.9	10145.4	12086.4	14134.6	15505.2	16010.5	15964.6	16106.2	17369.6	17610.8	15156.8
57.5°	8644.6	8659.9	10306.2	13185.1	15145.3	16113.9	16068.0	16179.0	17281.6	17117.0	14417.9
60°	5409.6	5646.9	7013.7	10141.5	12878.9	14950.1	15210.4	14318.4	14571.0	14222.7	11217.3
62.5°	2802.4	2768.0	3675.3	5930.3	8548.9	10704.3	10945.5	10903.4	10512.9	10003.7	7327.6
65°	1397.4	1405.0	1921.9	2936.4	4379.7	5604.8	6278.6	6351.4	5313.9	4888.9	3476.2
67.5°	1014.5	1052.8	1382.1	1795.5	2063.5	2308.5	2829.2	2775.6	2101.8	1998.4	1853.0
70°	788.7	823.1	1121.7	1370.6	1244.2	1244.2	1355.3	1401.2	1496.9	1539.0	1588.8
72.5°	574.3	601.1	857.6	945.6	815.5	876.7	1014.5	1121.7	1221.3	1236.6	1294.0
75°	394.3	417.3	562.8	520.7	490.0	604.9	742.7	842.3	915.0	953.3	987.7
77.5°	256.5	264.2	321.6	271.8	313.9	390.5	482.4	566.6	639.3	670.0	677.6
80°	114.9	126.3	137.8	172.3	218.2	279.5	344.6	413.5	459.4	470.9	493.9
82.5°	65.1	65.1	84.2	122.5	160.8	202.9	248.8	298.6	352.2	363.7	359.9
85°	34.5	34.5	49.8	72.7	99.5	118.7	114.9	118.7	126.3	145.5	141.7
87.5°	11.5	11.5	15.3	15.3	19.1	23.0	19.1	26.8	34.5	34.5	34.5
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°	7863.6	7863.6	7863.6	7863.6	7863.6	7863.6	7863.6	7863.6	7863.6	7863.6	7863.6
2.5°	7852.1	7886.6	7840.6	7940.2	7940.2	7921.0	7825.3	7856.0	7878.9	7878.9	7898.1
5°	8001.4	7990.0	8020.6	7901.9	7829.2	7802.4	7645.4	7568.8	7503.7	7499.9	7442.5
7.5°	8085.7	8055.0	8043.6	7955.5	7633.9	7438.7	7101.8	6906.5	6864.4	6715.1	6772.5
10°	8219.7	8277.1	8219.7	7741.1	7293.2	6845.2	6516.0	6213.6	6094.9	5999.2	5941.7
12.5°	8495.3	8468.5	8135.4	7488.4	6860.6	6328.4	5838.4	5520.6	5401.9	5317.7	5310.0
15°	8728.8	8594.8	8085.7	7090.3	6186.8	5620.1	5218.2	4992.3	4938.7	4946.3	4980.8
17.5°	8809.2	8717.4	7825.3	6676.8	5685.2	5019.1	4831.5	4797.0	4846.8	4904.2	4919.5
20°	8935.6	8790.1	7718.1	6114.0	5065.0	4643.9	4632.4	4754.9	4846.8	4931.0	4942.5
22.5°	9199.7	8832.2	7369.7	5581.9	4640.1	4532.9	4643.9	4747.3	4888.9	4957.8	4896.6
25°	9276.3	8740.3	6879.7	4942.5	4372.1	4464.0	4582.6	4724.3	4823.8	4862.1	4888.9
27.5°	9341.4	8598.7	6217.4	4517.6	4287.9	4460.1	4582.6	4701.3	4754.9	4789.4	4820.0
30°	9525.2	8556.6	5643.1	4234.3	4234.3	4383.6	4540.5	4571.2	4643.9	4686.0	4739.6
32.5°	9617.0	8265.6	5053.5	4054.3	4180.7	4421.8	4433.3	4490.8	4494.6	4529.0	4471.6
35°	9858.2	8058.9	4506.1	3924.1	4203.6	4383.6	4441.0	4406.5	4218.9	4127.1	4146.2
37.5°	10034.3	7955.5	4111.7	3908.8	4207.5	4425.7	4456.3	4196.0	4000.7	3847.6	3885.9
40°	10509.1	7699.0	3813.1	3882.0	4241.9	4471.6	4387.4	4104.1	3751.9	3594.9	3568.1
42.5°	10872.8	7515.2	3625.5	3851.4	4268.7	4536.7	4352.9	3920.3	3560.4	3415.0	3453.3
45°	11293.9	7473.1	3526.0	3859.1	4314.7	4571.2	4310.8	3778.7	3395.8	3338.4	3326.9
47.5°	11443.2	7170.7	3418.8	3794.0	4303.2	4559.7	4169.2	3671.5	3334.6	3342.2	3372.9
50°	11194.4	6860.6	3338.4	3660.0	4226.6	4456.3	3947.1	3529.8	3300.1	3395.8	3449.4
52.5°	10876.6	6542.8	3173.8	3480.1	4069.6	4295.5	3843.8	3522.2	3265.7	3235.0	3246.5
55°	10972.3	6282.5	2944.1	3235.0	3817.0	3996.9	3728.9	3449.4	3181.4	3066.6	3104.9
56°	10662.2	6014.5	2794.8	3081.9	3644.7	3805.5	3671.5	3384.3	3112.5	3036.0	3036.0
57.5°	9785.5	5114.8	2599.5	2836.9	3281.0	3472.4	3560.4	3346.1	3036.0	2902.0	2905.8
60°	7216.6	3637.0	2331.5	2500.0	2718.2	2871.3	3281.0	3238.9	2844.5	2752.6	2718.2
62.5°	4448.6	2656.9	2140.1	2205.2	2316.2	2442.5	2863.7	2932.6	2641.6	2542.1	2519.1
65°	2492.3	2032.9	1994.6	2021.4	2075.0	2140.1	2377.5	2530.6	2331.5	2178.4	2170.7
67.5°	1822.3	1818.5	1849.1	1872.1	1895.1	1895.1	1952.5	2013.8	1987.0	1864.4	1853.0
70°	1619.4	1630.9	1653.9	1657.7	1665.4	1638.6	1592.6	1573.5	1604.1	1527.5	1512.2
72.5°	1336.1	1374.4	1401.2	1405.0	1362.9	1328.5	1267.2	1202.1	1179.2	1163.8	1160.0
75°	1026.0	1052.8	1064.3	1060.5	1045.2	995.4	922.7	857.6	815.5	769.5	792.5
77.5°	692.9	731.2	750.4	750.4	727.4	650.8	616.4	566.6	524.5	474.7	482.4
80°	486.2	513.0	543.6	539.8	501.5	463.2	413.5	367.5	333.1	294.8	291.0
82.5°	363.7	379.0	394.3	386.7	359.9	321.6	287.1	245.0	206.7	179.9	179.9
85°	130.2	141.7	172.3	179.9	195.3	195.3	164.6	137.8	111.0	91.9	91.9
87.5°	38.3	38.3	42.1	42.1	38.3	42.1	34.5	38.3	42.1	26.8	26.8
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)