

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: P530323

Luminaire Tested: **GALN-SA5C-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-735-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19586 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

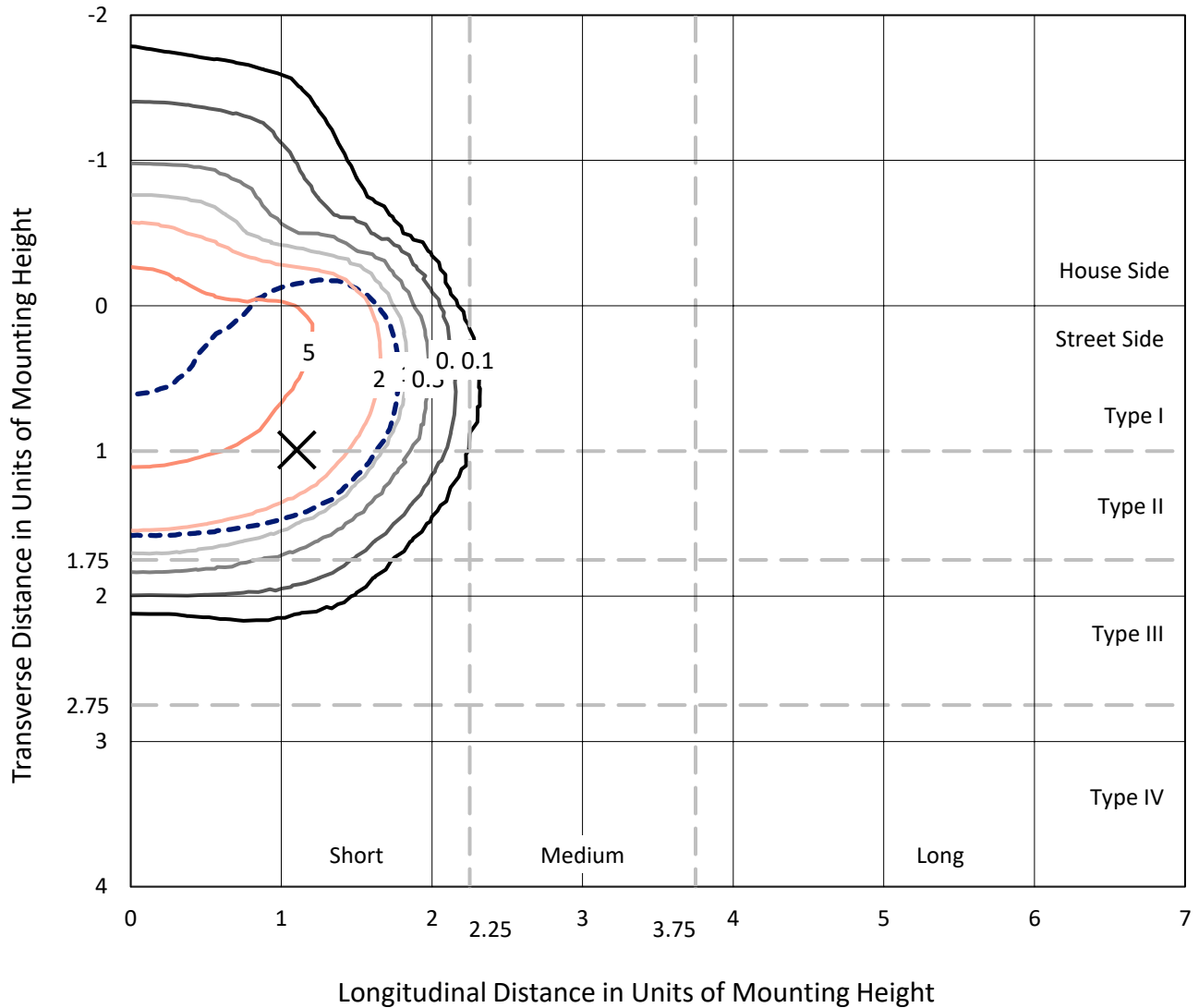
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530323
 CATALOG NUMBER: GALN-SA5C-735-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

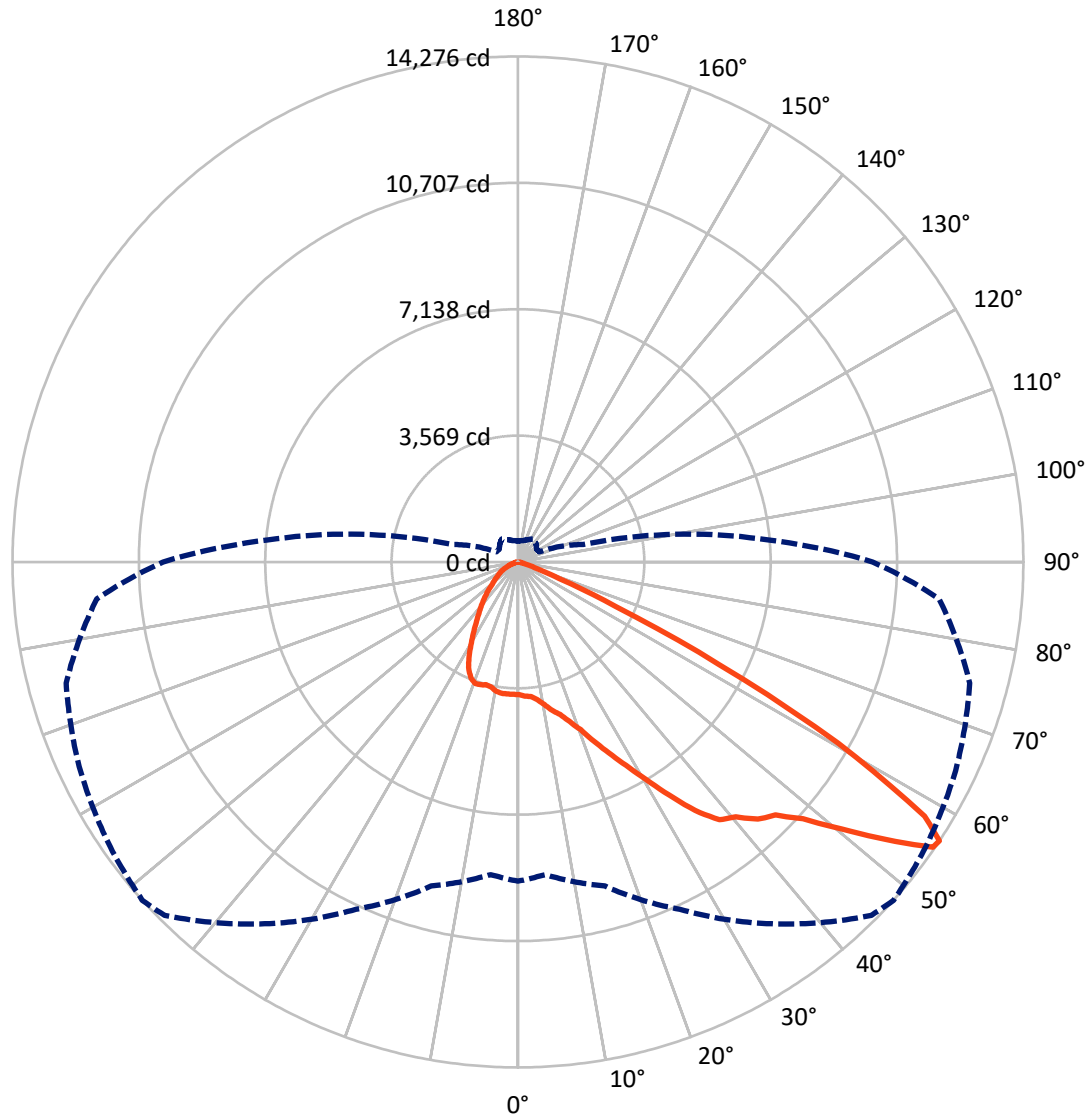
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

REPORT NUMBER: P530323
CATALOG NUMBER: GALN-SA5C-735-U-T3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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 CATALOG NUMBER: GALN-SA5C-735-U-T3-GRSBK

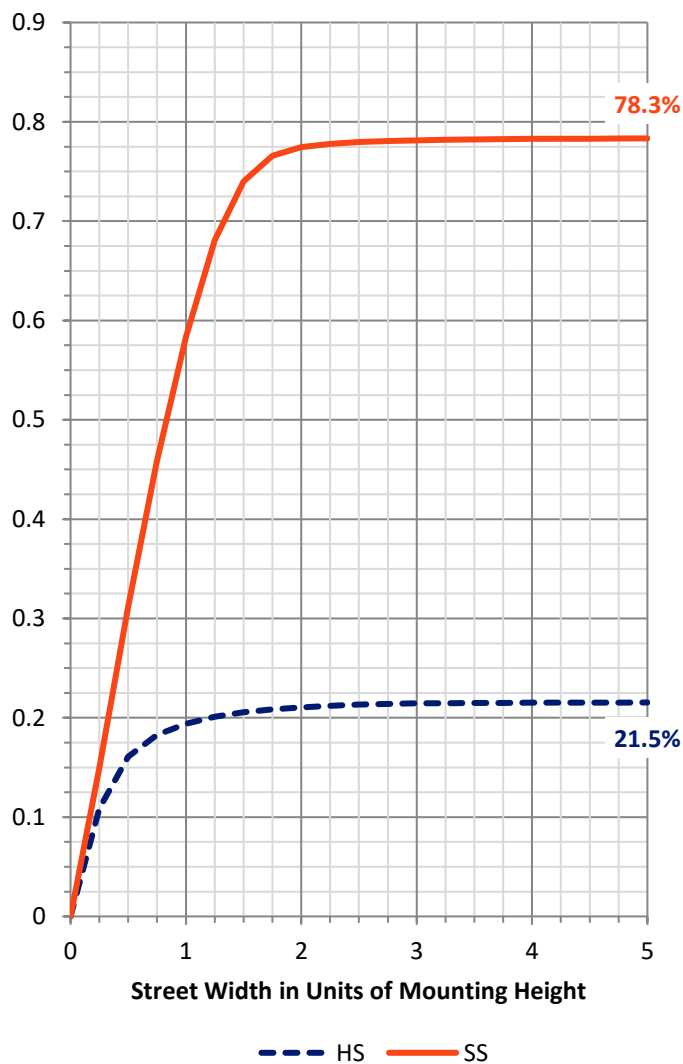
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4259.6	0.0	4259.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	15326.4	0.0	15326.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	19586.0	0.0	19586.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.4	1.9
10°-20°	1164.6	5.9
20°-30°	2112.3	10.8
30°-40°	3318.0	16.9
40°-50°	4840.4	24.7
50°-60°	5831.8	29.8
60°-70°	1707.5	8.7
70°-80°	216.6	1.1
80°-90°	30.4	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°	19586.0	100.0
0°-180°	19586.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530323

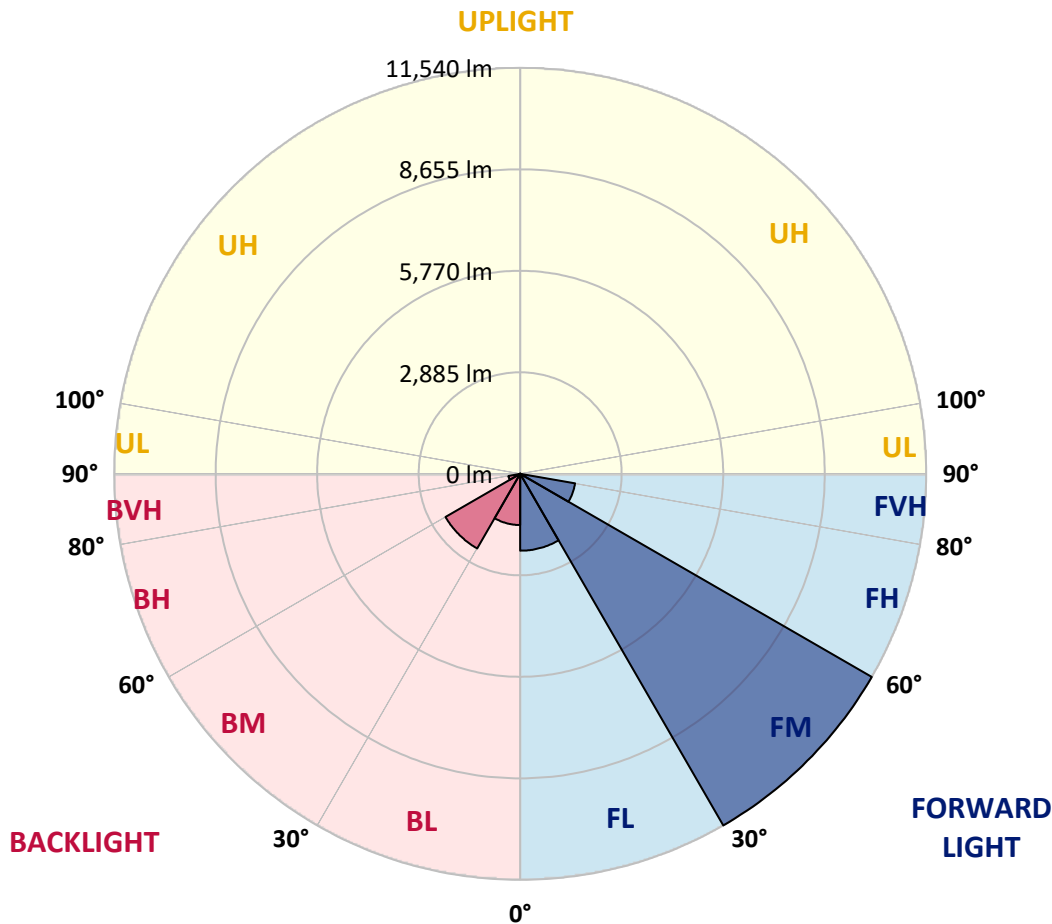
CATALOG NUMBER: GALN-SA5C-735-U-T3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2185.4	11.2			
FM (30°-60°)	11540.1	58.9			
FH (60°-80°)	1585.6	8.1			G1/1800
FVH (80°-90°)	15.3	0.1			G1/100
BL (0°-30°)	1455.9	7.4	B3/2500		
BM (30°-60°)	2450.1	12.5	B2/2500		
BH (60°-80°)	338.5	1.7	B1/500		G1/500
BVH (80°-90°)	15.1	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 II Short





REPORT NUMBER: P530323

CATALOG NUMBER: GALN-SA5C-735-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3740.9	3740.9	3740.9	3740.9	3740.9	3740.9	3740.9	3740.9	3740.9	3740.9	3740.9
2.5°	3808.7	3790.9	3790.9	3762.3	3794.4	3780.2	3790.9	3755.2	3790.9	3737.4	3780.2
5°	3826.5	3830.1	3815.8	3833.7	3833.7	3855.1	3819.4	3851.5	3869.3	3830.1	3812.3
7.5°	3919.2	3926.4	3922.8	3908.5	3937.1	3933.5	3929.9	3905.0	3912.1	3897.8	3876.4
10°	4101.1	4097.6	4115.4	4079.7	4058.3	4083.3	4090.4	4051.2	4022.7	4012.0	3944.2
12.5°	4365.0	4322.2	4297.3	4261.6	4272.3	4236.6	4300.8	4233.1	4218.8	4154.6	4086.9
15°	4579.0	4571.9	4575.4	4518.4	4454.2	4468.4	4468.4	4432.8	4411.4	4332.9	4236.6
17.5°	5017.6	4867.9	4899.9	4828.6	4775.1	4771.6	4739.5	4746.6	4689.5	4525.5	4379.3
20°	5360.0	5295.8	5245.9	5124.6	5042.6	5067.6	5053.3	5017.6	4999.8	4785.8	4579.0
22.5°	5666.7	5688.1	5606.1	5574.0	5459.8	5470.5	5499.1	5467.0	5331.5	5110.4	4803.7
25°	6098.2	6073.2	5962.7	5923.4	5816.5	5855.7	5966.2	5941.3	5855.7	5456.3	4978.4
27.5°	6608.2	6522.6	6544.0	6365.7	6262.2	6372.8	6504.7	6629.5	6387.0	5862.8	5185.2
30°	6968.3	6879.2	6872.1	6864.9	6840.0	6968.3	7121.7	7235.8	7039.7	6269.4	5527.6
32.5°	7146.6	7168.0	7228.7	7207.3	7424.8	7688.7	7849.2	8013.2	7767.2	6932.7	5980.5
35°	7621.0	7485.4	7621.0	7635.2	7859.9	8419.8	8623.1	9015.3	8954.7	7870.6	6533.3
37.5°	7899.1	7888.4	7906.2	8041.8	8259.3	8951.1	9240.0	9543.1	9429.0	8434.0	7221.5
40°	8359.2	8387.7	8384.1	8487.5	8726.5	9350.6	9468.2	9714.3	9725.0	9215.0	8234.3
42.5°	9097.4	8983.2	8908.3	9015.3	9350.6	9696.5	9931.8	9881.9	10235.0	10163.6	9536.0
45°	9760.7	9828.4	9717.9	9896.2	10017.4	10202.9	10195.7	10302.7	10752.1	11090.9	10516.7
47.5°	10381.2	10424.0	10477.5	10598.7	10862.6	10891.1	10830.5	10784.2	11404.7	11754.2	11276.3
50°	10752.1	10791.3	11040.9	11258.5	11750.6	11814.8	11850.5	11732.8	12153.6	12192.8	11993.1
52.5°	10652.2	10695.0	11044.5	11761.3	12545.9	13134.3	13027.3	12827.6	12802.6	12956.0	12656.4
55°	9767.8	9728.6	10210.0	11326.2	12795.5	14207.7	14222.0	14011.6	13608.6	13505.2	12556.6
56°	9015.3	8862.0	9475.4	10823.4	12474.5	14115.0	14275.5	14050.8	13672.8	13209.2	11939.6
57.5°	7385.6	7531.8	8141.6	9257.8	11365.5	13448.1	13540.8	13487.3	13202.0	12424.6	10506.0
60°	4072.6	4329.4	4867.9	6233.7	8091.7	10320.6	10395.4	10830.5	10884.0	9514.6	7228.7
62.5°	1729.6	1701.1	2261.0	3266.6	4607.5	6230.1	6369.2	6815.0	6897.0	5484.8	3626.8
65°	702.5	741.8	1023.5	1644.0	2435.7	2838.7	3034.8	3181.0	3452.1	2264.5	1337.3
67.5°	463.6	460.0	602.7	937.9	1312.4	1266.0	1266.0	1337.3	1237.5	923.6	577.7
70°	331.7	342.4	431.5	649.0	816.7	606.3	581.3	556.3	631.2	609.8	467.2
72.5°	217.5	231.8	288.9	388.7	424.4	331.7	331.7	399.4	520.7	492.1	381.6
75°	142.6	146.2	178.3	224.7	210.4	171.2	189.0	267.5	378.0	363.8	271.0
77.5°	96.3	99.9	121.3	146.2	117.7	96.3	103.4	135.5	185.4	185.4	142.6
80°	35.7	39.2	49.9	46.4	53.5	67.8	74.9	92.7	110.6	110.6	96.3
82.5°	0.0	3.6	10.7	25.0	39.2	53.5	60.6	71.3	82.0	92.7	89.2
85°	0.0	3.6	10.7	17.8	28.5	32.1	35.7	25.0	21.4	21.4	17.8
87.5°	0.0	0.0	3.6	3.6	3.6	3.6	3.6	3.6	7.1	3.6	3.6
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: P530323

CATALOG NUMBER: GALN-SA5C-735-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3740.9	3740.9	3740.9	3740.9	3740.9	3740.9	3740.9	3740.9	3740.9	3740.9	3740.9
2.5°	3740.9	3737.4	3737.4	3726.7	3748.1	3737.4	3744.5	3740.9	3694.6	3730.2	3705.3
5°	3780.2	3805.1	3765.9	3758.8	3730.2	3740.9	3740.9	3705.3	3737.4	3733.8	3726.7
7.5°	3880.0	3837.2	3794.4	3751.6	3744.5	3733.8	3694.6	3680.3	3705.3	3676.7	3719.5
10°	3922.8	3929.9	3865.8	3808.7	3755.2	3680.3	3626.8	3594.7	3555.5	3598.3	3623.3
12.5°	4119.0	4047.6	3937.1	3847.9	3666.0	3591.2	3537.7	3523.4	3591.2	3605.4	3580.5
15°	4186.7	4176.0	4033.4	3833.7	3644.6	3555.5	3566.2	3537.7	3544.8	3509.1	3516.3
17.5°	4325.8	4204.5	4036.9	3787.3	3641.1	3619.7	3555.5	3441.4	3377.2	3348.7	3373.6
20°	4479.1	4361.5	4119.0	3805.1	3673.2	3616.1	3405.7	3266.6	3134.7	3063.4	3066.9
22.5°	4614.7	4468.4	4083.3	3812.3	3701.7	3466.3	3213.1	2938.5	2774.5	2663.9	2667.5
25°	4778.7	4571.9	4097.6	3826.5	3626.8	3227.4	2863.7	2596.2	2400.0	2325.2	2350.1
27.5°	4871.4	4636.0	4176.0	3858.6	3430.7	2888.6	2496.3	2246.7	2132.6	2096.9	2093.4
30°	5149.6	4778.7	4272.3	3794.4	3102.6	2524.9	2161.1	2007.8	1897.2	1865.1	1872.3
32.5°	5563.3	5039.0	4397.1	3626.8	2767.4	2200.3	1943.6	1829.5	1726.0	1665.4	1658.3
35°	5909.2	5484.8	4529.1	3366.5	2378.6	1950.7	1790.2	1647.6	1490.7	1422.9	1405.1
37.5°	6568.9	5987.6	4500.5	2974.2	2007.8	1765.3	1626.2	1451.4	1315.9	1223.2	1212.5
40°	7446.2	6576.1	4361.5	2496.3	1733.2	1601.2	1451.4	1283.8	1116.2	1037.8	1030.6
42.5°	8512.5	7296.4	4108.3	2011.3	1458.6	1437.2	1301.7	1109.1	959.3	902.2	905.8
45°	9379.1	7913.4	3851.5	1615.5	1255.3	1276.7	1159.0	977.1	873.7	827.4	827.4
47.5°	10149.4	8330.6	3573.3	1333.8	1066.3	1116.2	1012.8	905.8	816.7	781.0	773.9
50°	10891.1	8755.0	3295.2	1080.6	909.4	959.3	948.6	863.0	791.7	748.9	752.5
52.5°	11354.8	8822.8	2942.1	884.4	795.3	852.3	888.0	809.5	731.1	706.1	699.0
55°	10787.7	7949.0	2282.4	727.5	674.0	748.9	816.7	727.5	666.9	624.1	620.5
56°	10024.6	7107.4	1907.9	670.4	638.3	720.4	791.7	695.4	627.6	602.7	584.9
57.5°	8487.5	5816.5	1408.6	595.6	592.0	670.4	752.5	663.3	584.9	563.5	563.5
60°	5292.2	3273.8	852.3	499.3	513.5	595.6	677.6	592.0	520.7	520.7	531.4
62.5°	2410.7	1362.3	517.1	424.4	442.2	513.5	602.7	534.9	495.7	534.9	542.1
65°	820.2	588.4	374.5	338.8	349.5	424.4	517.1	542.1	538.5	563.5	577.7
67.5°	460.0	378.0	313.8	281.7	274.6	313.8	424.4	542.1	520.7	510.0	517.1
70°	388.7	321.0	278.2	249.6	238.9	253.2	328.1	410.1	367.3	356.6	349.5
72.5°	313.8	267.5	242.5	224.7	192.6	164.0	149.8	156.9	174.7	185.4	203.3
75°	221.1	203.3	203.3	181.9	139.1	103.4	82.0	67.8	46.4	32.1	35.7
77.5°	124.8	124.8	128.4	110.6	89.2	67.8	49.9	35.7	17.8	7.1	3.6
80°	85.6	92.7	99.9	89.2	74.9	60.6	42.8	25.0	10.7	0.0	0.0
82.5°	85.6	96.3	103.4	89.2	74.9	57.1	42.8	25.0	10.7	3.6	0.0
85°	17.8	21.4	25.0	28.5	42.8	42.8	32.1	21.4	10.7	3.6	0.0
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	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)