

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: P533822

Luminaire Tested: **GALN-SA9B-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40729 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

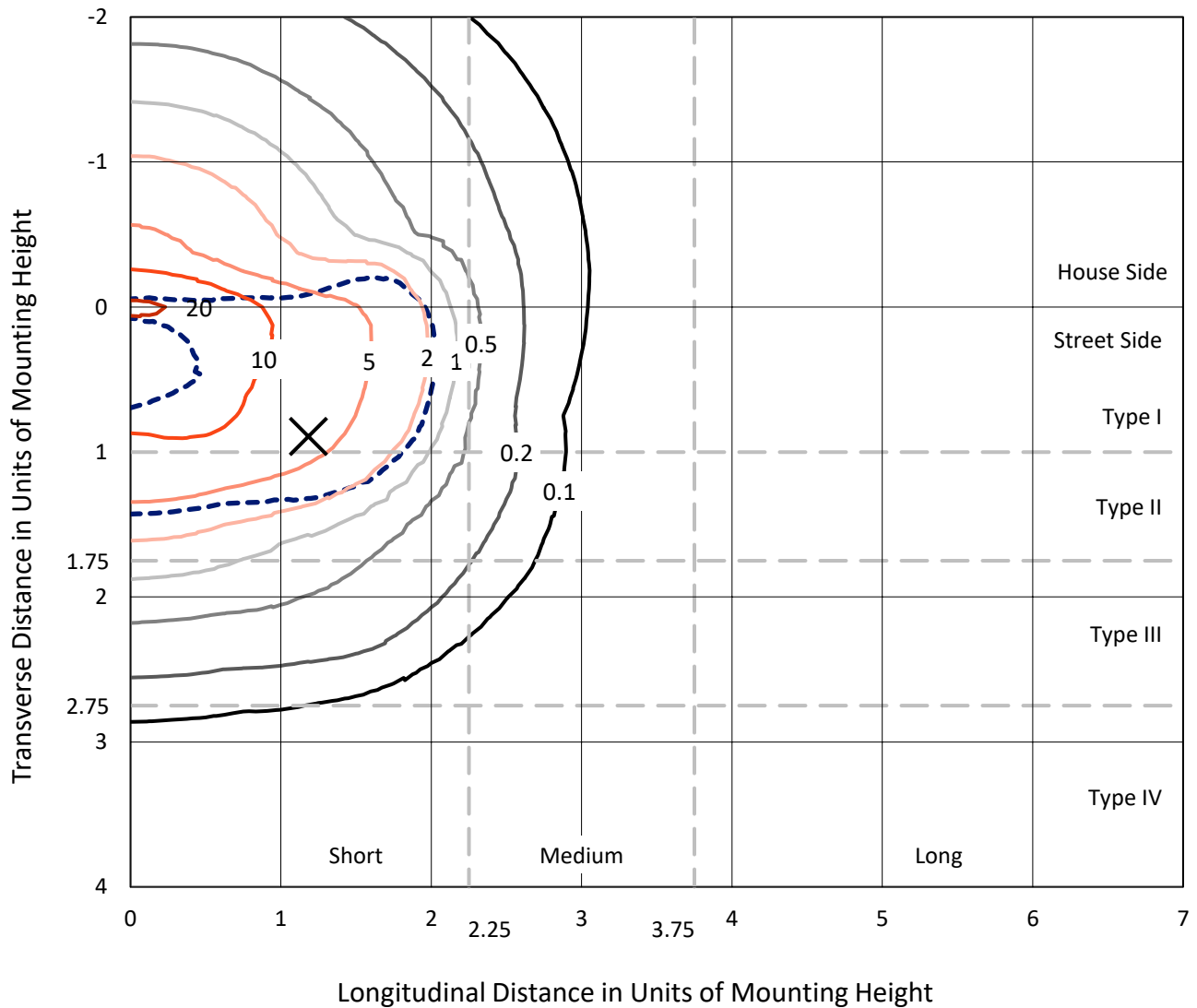
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

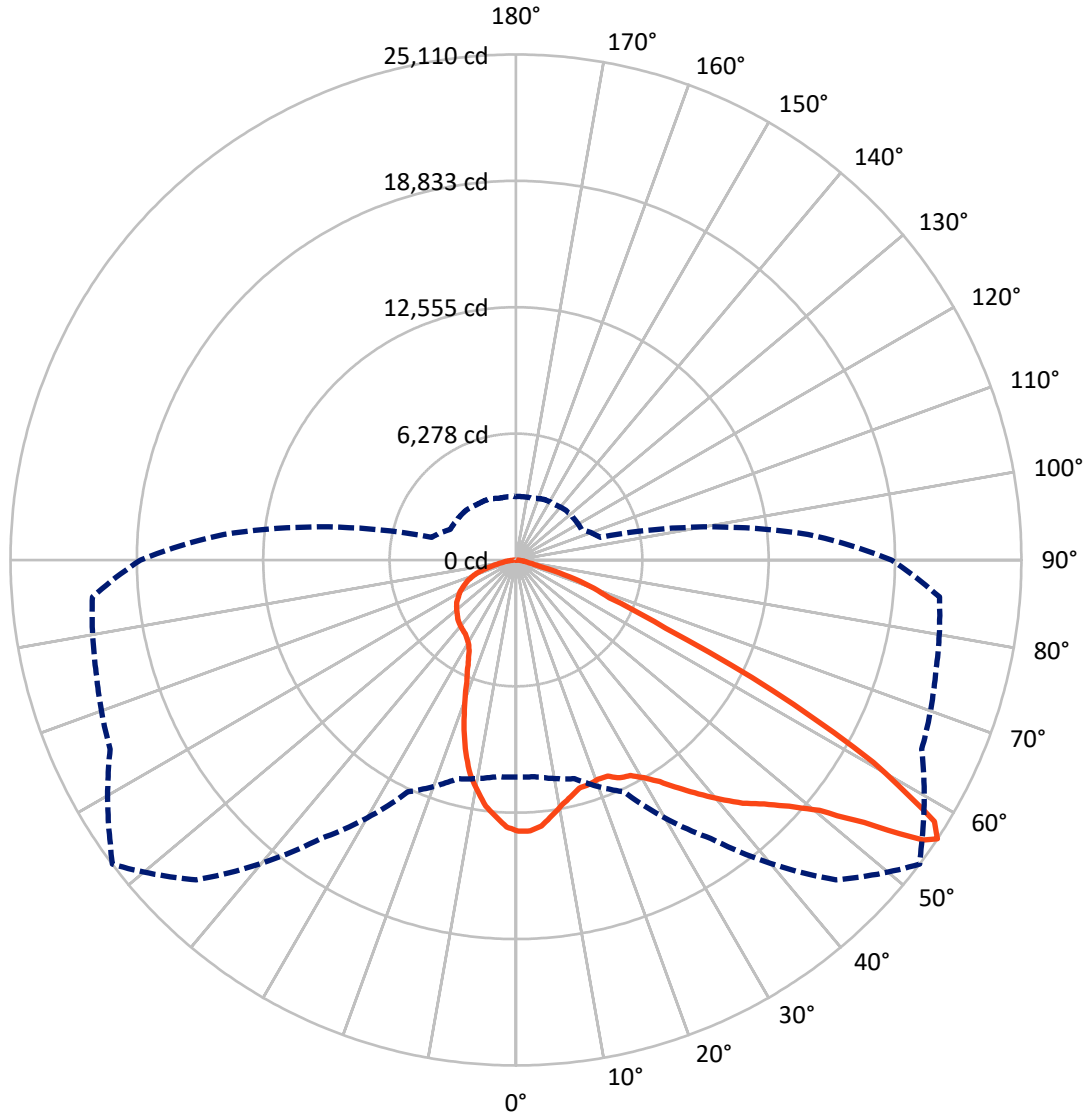
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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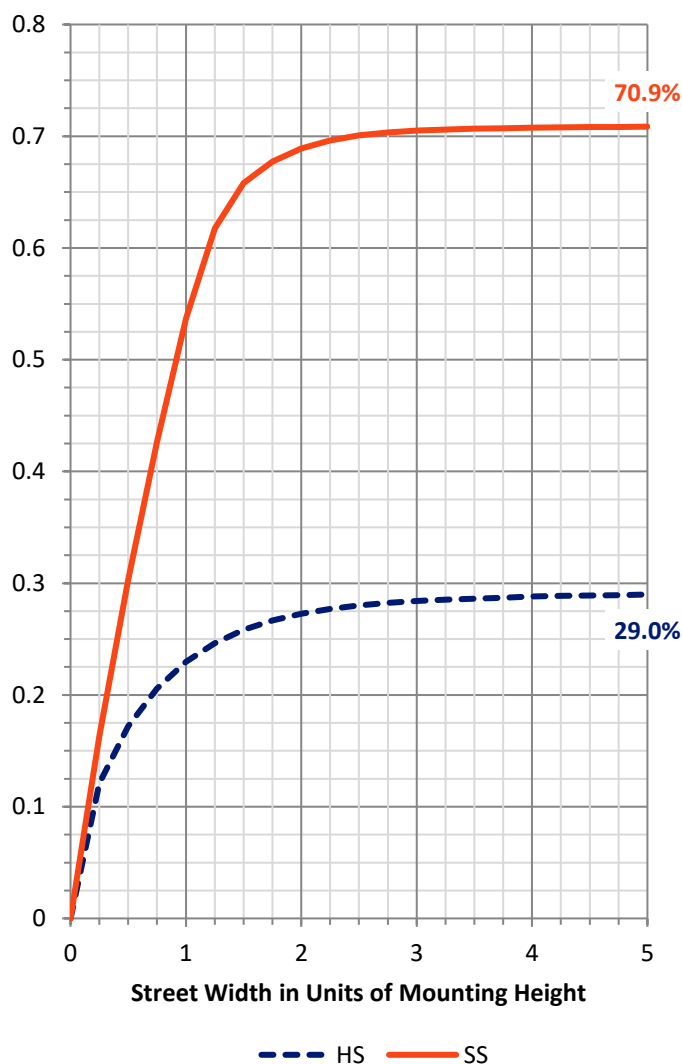
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11885.6	0.0	11885.6
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	28843.4	0.0	28843.4
	% Fixture	70.8	0.0	70.8
Total	Lumens	40729.0	0.0	40729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1192.9	2.9
10°-20°	2979.3	7.3
20°-30°	4393.3	10.8
30°-40°	6277.2	15.4
40°-50°	8639.7	21.2
50°-60°	10209.8	25.1
60°-70°	5441.1	13.4
70°-80°	1380.4	3.4
80°-90°	215.2	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°	40729.0	100.0
0°-180°	40729.0	100.0

Coefficient of Utilization

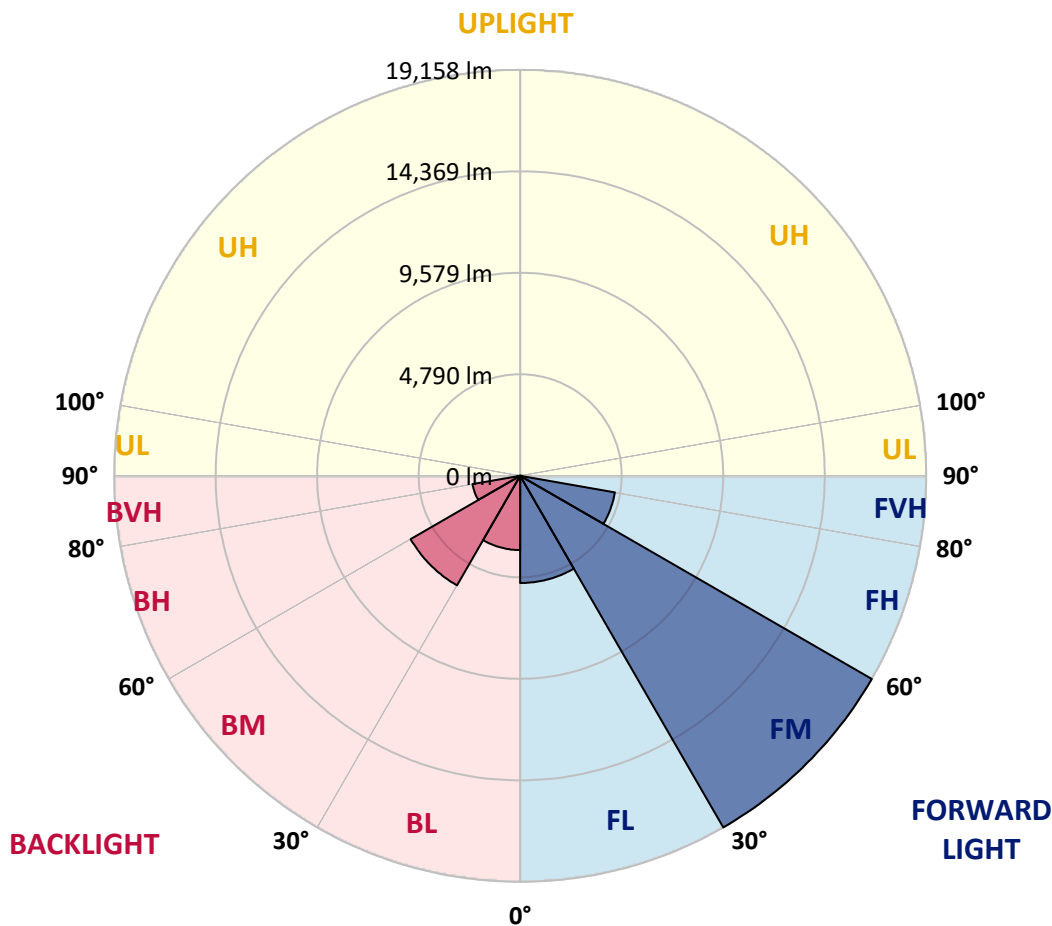


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5060.0	12.4			
FM (30°-60°)	19158.1	47.0			
FH (60°-80°)	4538.7	11.1			G2/5000
FVH (80°-90°)	86.5	0.2			G1/100
BL (0°-30°)	3505.5	8.6	B4/5000		
BM (30°-60°)	5968.5	14.7	B4/8500		
BH (60°-80°)	2282.8	5.6	B3/2500		G3/2500
BVH (80°-90°)	128.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	13474.8	13474.8	13474.8	13474.8	13474.8	13474.8	13474.8	13474.8	13474.8	13474.8	13474.8
2.5°	13307.6	13192.6	13260.5	13234.4	13448.6	13511.3	13480.0	13506.1	13626.3	13568.8	13448.6
5°	12435.0	12597.0	12628.3	12706.7	12832.1	13077.7	13271.0	13323.2	13380.7	13647.2	13621.1
7.5°	11640.9	11750.6	11693.1	11923.0	12194.7	12591.8	12826.9	12868.7	13396.4	13542.7	13652.4
10°	11139.3	11029.6	11290.8	11353.5	11661.8	12116.3	12398.4	12570.9	13051.5	13631.5	13699.4
12.5°	10674.3	10637.7	10794.4	10972.1	11316.9	11787.1	12074.5	12142.4	12884.4	13495.7	13814.4
15°	10329.4	10287.6	10444.4	10575.0	10977.3	11395.3	11761.0	11954.3	12701.5	13417.3	13715.1
17.5°	10057.7	10052.5	10141.3	10376.5	10789.2	11139.3	11729.7	11740.1	12607.4	13537.5	13798.7
20°	10042.1	10036.8	10052.5	10313.8	10689.9	11118.4	11630.4	11724.5	12607.4	13453.9	13803.9
22.5°	10172.7	10089.1	10183.1	10350.3	10622.0	11154.9	11667.0	11876.0	12910.5	13866.6	14039.0
25°	10381.7	10402.6	10454.8	10512.3	10669.0	11238.5	11990.9	12163.3	13265.8	14221.9	14363.0
27.5°	10763.1	10752.6	10773.5	10804.9	10940.7	11316.9	12121.5	12565.6	14007.7	14854.1	14713.0
30°	11322.1	11285.6	11369.2	11478.9	11353.5	11567.7	12555.2	12889.6	14697.4	15491.5	15104.9
32.5°	11828.9	11964.8	12121.5	12168.6	12017.0	12058.8	13129.9	13469.5	15272.1	16275.3	15585.6
35°	12461.1	12570.9	12779.9	12926.2	12900.0	12774.6	13913.6	14363.0	16102.8	16850.0	16092.4
37.5°	13077.7	13208.3	13553.1	13986.8	13746.4	13689.0	14749.6	15120.6	16358.8	17158.2	16463.3
40°	14070.4	14065.2	14660.8	14885.5	15099.7	15000.4	15616.9	15742.3	16494.7	17090.3	16473.8
42.5°	15235.5	15162.4	15768.4	16118.5	16395.4	16405.9	16520.8	16479.0	16557.4	16745.5	16364.1
45°	16343.2	16499.9	17111.2	17738.2	18015.1	18046.5	17283.6	17205.3	16667.1	16646.2	16155.1
47.5°	17696.4	17733.0	18234.6	19060.1	19702.7	19483.3	18271.1	18098.7	17147.8	17309.8	16505.1
50°	17774.8	18046.5	18495.8	19467.6	21442.6	21385.1	19551.2	19227.3	17921.1	18250.2	17482.2
52.5°	16134.2	16071.5	16604.4	18192.8	21312.0	23276.5	21672.5	20899.2	19582.5	19331.8	19065.3
55°	12294.0	12440.2	12910.5	14514.5	18506.2	23302.6	24561.8	23929.6	21359.0	20930.5	20622.3
56°	10784.0	10804.9	11249.0	12711.9	16886.6	22471.9	25110.4	24598.4	22242.0	21588.9	21118.6
57.5°	8939.6	8819.5	9049.4	9848.7	14253.3	20716.3	24509.5	25011.1	23276.5	22299.4	21646.3
60°	7037.8	7011.7	6917.6	7063.9	9007.6	15606.5	20402.8	21531.4	23172.0	21630.7	20732.0
62.5°	5747.3	5616.7	5804.8	6013.7	6259.3	9681.6	14336.9	15000.4	18396.5	17268.0	15575.1
65°	4456.8	4394.1	4629.2	5308.4	5454.7	6149.6	8166.4	8678.4	10862.4	10669.0	9394.2
67.5°	3067.0	3077.4	3281.2	4315.7	5057.6	4994.9	5000.1	5266.6	5668.9	4211.2	3667.8
70°	1943.6	1938.4	2048.1	2779.6	4070.1	4111.9	3902.9	3824.6	3626.0	2194.4	2325.0
72.5°	1248.7	1212.2	1269.6	1536.1	2105.6	2434.8	2507.9	2554.9	2100.4	1724.2	1870.5
75°	705.3	668.8	647.9	715.8	830.7	961.4	1055.4	1086.8	1217.4	1306.2	1384.6
77.5°	214.2	193.3	235.1	313.5	412.8	553.8	674.0	694.9	820.3	924.8	1003.2
80°	94.0	104.5	146.3	209.0	292.6	391.9	475.5	506.8	590.4	668.8	689.7
82.5°	57.5	62.7	99.3	141.1	203.8	276.9	339.6	350.1	433.7	496.4	512.0
85°	20.9	26.1	52.2	83.6	130.6	177.6	177.6	193.3	177.6	177.6	193.3
87.5°	0.0	0.0	5.2	10.4	10.4	15.7	20.9	20.9	26.1	31.3	36.6
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°	13474.8	13474.8	13474.8	13474.8	13474.8	13474.8	13474.8	13474.8	13474.8	13474.8	13474.8
2.5°	13511.3	13485.2	13443.4	13291.9	13276.2	13229.2	12968.0	12926.2	12968.0	12842.6	12853.0
5°	13485.2	13563.6	13250.1	13098.6	12816.4	12612.7	12377.6	12257.4	12043.2	11907.3	12058.8
7.5°	13600.2	13568.8	13176.9	12847.8	12424.6	11907.3	11494.6	11259.4	10883.3	10778.8	10857.1
10°	13558.4	13391.2	12931.4	12497.7	11698.3	11243.8	10575.0	9927.1	9571.8	9389.0	9362.8
12.5°	13500.9	13453.9	12685.8	11938.7	11097.5	10141.3	9200.9	8589.6	8009.6	7758.8	7795.4
15°	13568.8	13171.7	12226.0	11280.3	10162.2	8908.3	7894.7	7105.7	6703.4	6541.4	6541.4
17.5°	13537.5	13035.9	12006.6	10543.6	9127.7	7643.9	6531.0	6055.5	5888.3	5888.3	5935.4
20°	13553.1	13124.7	11562.5	9806.9	7905.1	6437.0	5627.1	5454.7	5527.8	5554.0	5580.1
22.5°	13642.0	12832.1	11128.8	8997.1	6771.3	5506.9	5109.9	5115.1	5245.7	5386.8	5360.6
25°	13751.7	12717.2	10601.1	8192.5	5904.0	5052.4	4927.0	4911.3	5010.6	5083.7	5094.2
27.5°	13657.6	12518.6	10063.0	7189.3	5193.5	4749.3	4723.2	4733.7	4765.0	4911.3	4864.3
30°	13965.9	12576.1	9389.0	6348.1	4801.6	4650.1	4618.7	4603.0	4650.1	4691.9	4655.3
32.5°	14347.3	12372.3	8887.4	5538.3	4608.3	4576.9	4514.2	4493.3	4519.5	4477.7	4498.6
35°	14514.5	12335.8	8234.3	4958.3	4456.8	4430.6	4394.1	4388.8	4394.1	4357.5	4326.1
37.5°	14608.5	12508.2	7487.1	4691.9	4362.7	4388.8	4305.2	4294.8	4200.7	4221.6	4237.3
40°	14770.5	12241.7	6881.1	4435.9	4305.2	4253.0	4179.8	4164.2	4101.5	4064.9	4101.5
42.5°	14535.4	12163.3	6285.4	4326.1	4221.6	4164.2	4111.9	4023.1	4002.2	3970.8	3949.9
45°	14347.3	11714.0	5752.5	4190.3	4122.4	4091.0	3991.7	3897.7	3819.3	3850.7	3803.7
47.5°	14488.4	11557.3	5224.8	4075.3	3986.5	3949.9	3850.7	3777.5	3699.2	3662.6	3652.1
50°	15052.6	11849.8	4780.7	3991.7	3871.6	3850.7	3720.1	3636.5	3563.3	3537.2	3547.6
52.5°	16400.6	12649.2	4477.7	3819.3	3761.9	3667.8	3594.7	3490.2	3443.1	3359.5	3411.8
55°	18109.2	13950.2	4399.3	3657.4	3626.0	3542.4	3443.1	3364.8	3275.9	3208.0	3192.4
56°	18657.8	14572.0	4336.6	3594.7	3542.4	3495.4	3364.8	3317.7	3176.7	3161.0	3150.6
57.5°	19101.9	15120.6	4347.0	3474.5	3422.2	3380.4	3302.1	3187.1	3093.1	3035.6	3061.7
60°	18098.7	14154.0	4148.5	3291.6	3281.2	3202.8	3093.1	3040.8	2925.9	2858.0	2842.3
62.5°	13453.9	9608.4	3364.8	3056.5	3051.3	2967.7	2842.3	2784.8	2763.9	2669.9	2669.9
65°	7748.4	6024.2	2910.2	2863.2	2821.4	2737.8	2612.4	2565.4	2513.1	2481.8	2455.7
67.5°	3307.3	3124.4	2643.7	2638.5	2591.5	2487.0	2361.6	2288.5	2220.5	2157.8	2189.2
70°	2398.2	2434.8	2387.7	2361.6	2304.1	2173.5	2063.8	1975.0	1870.5	1828.7	1860.0
72.5°	1901.8	1980.2	2048.1	2053.3	1985.4	1833.9	1713.7	1593.6	1478.6	1421.1	1447.3
75°	1442.0	1494.3	1562.2	1577.9	1478.6	1374.1	1259.2	1133.8	1045.0	977.0	987.5
77.5°	1039.7	1029.3	1092.0	1081.5	1034.5	961.4	856.9	741.9	642.7	580.0	585.2
80°	710.6	726.2	762.8	757.6	700.1	653.1	574.7	480.7	407.5	355.3	344.8
82.5°	496.4	522.5	553.8	527.7	480.7	433.7	376.2	308.3	250.8	209.0	198.5
85°	177.6	203.8	235.1	250.8	266.5	256.0	214.2	172.4	125.4	104.5	99.3
87.5°	36.6	41.8	47.0	47.0	47.0	41.8	36.6	36.6	31.3	15.7	15.7
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)