

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: P534285

Luminaire Tested: **GALN-SA9D-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48735 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

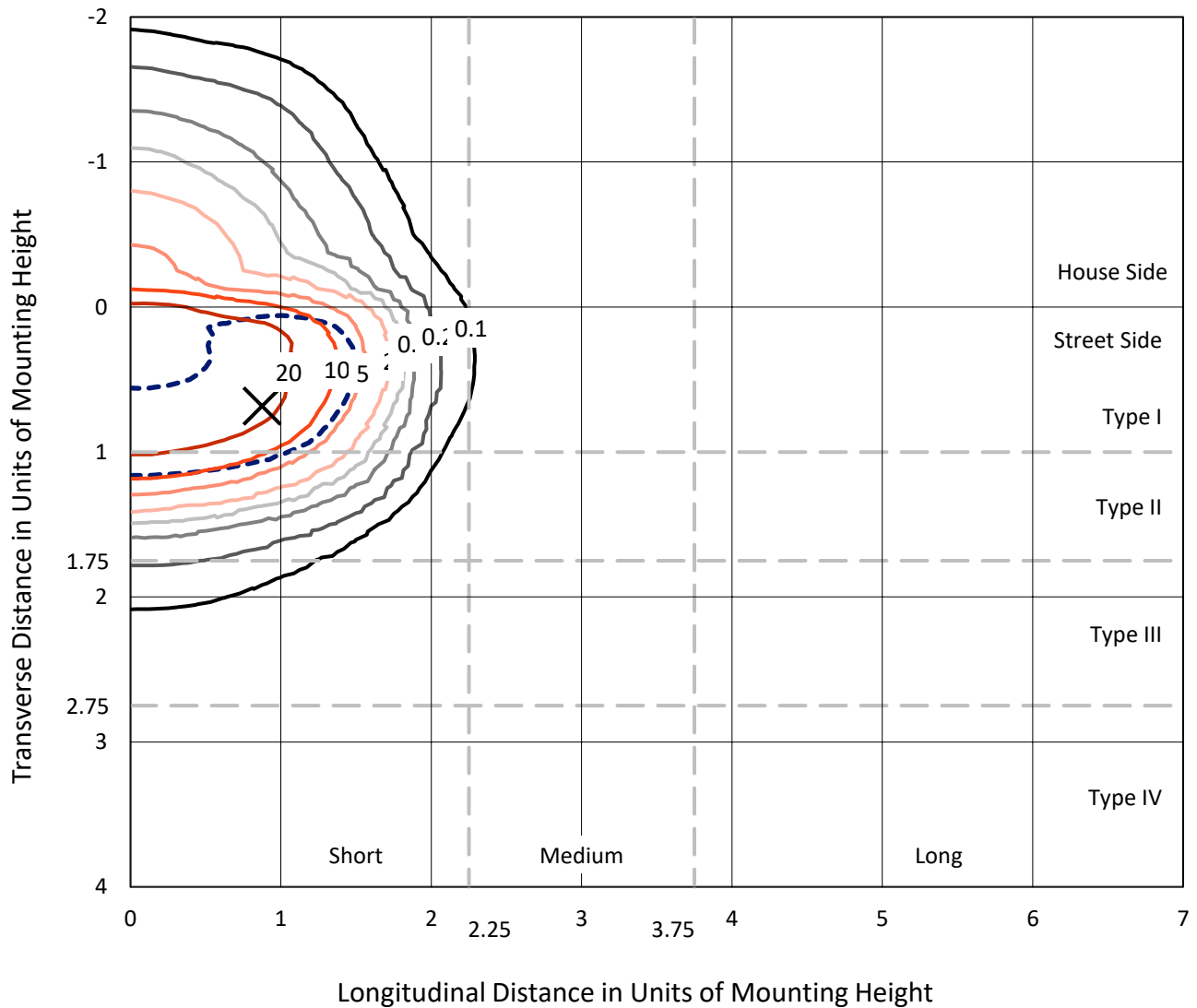
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

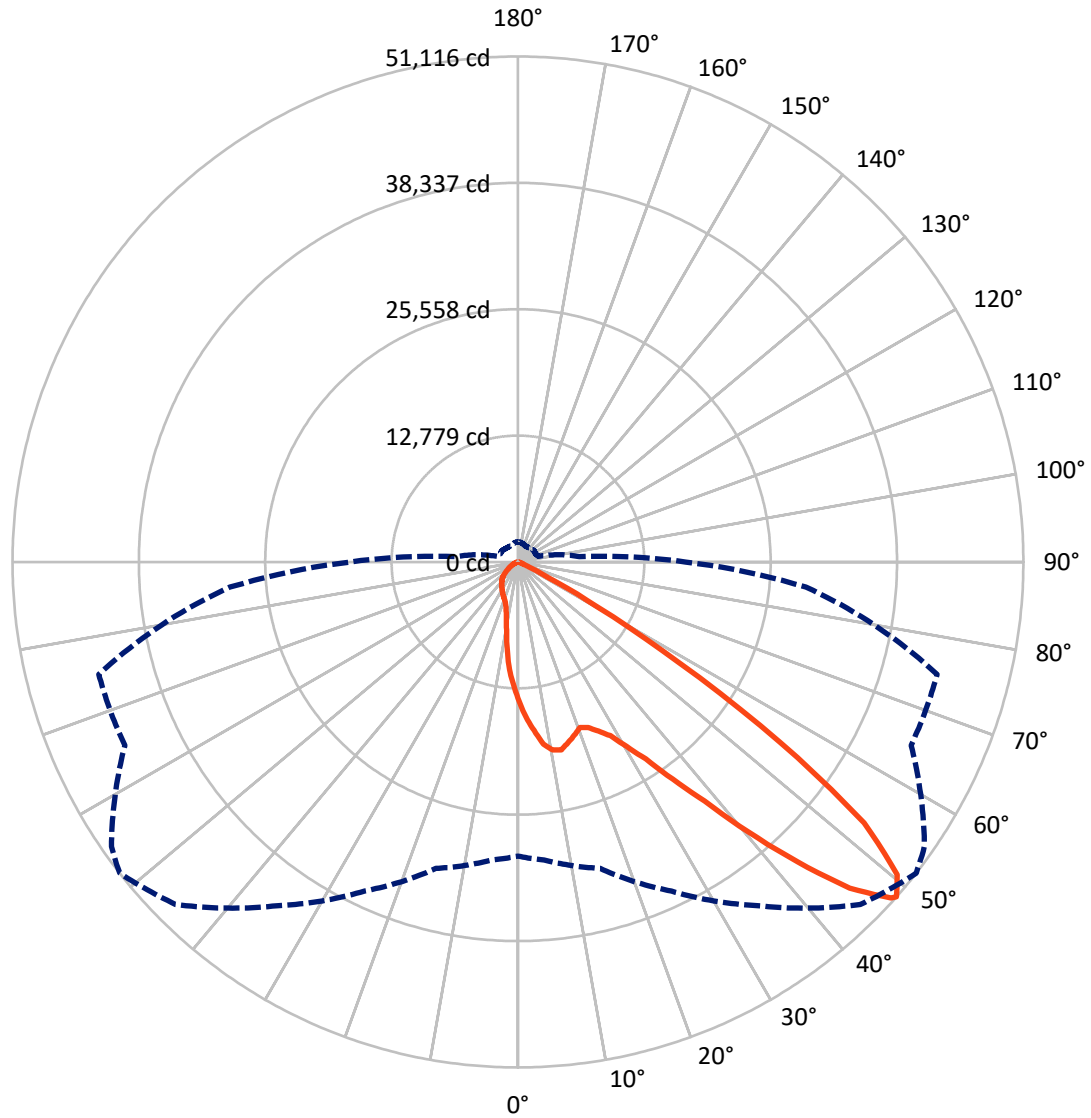
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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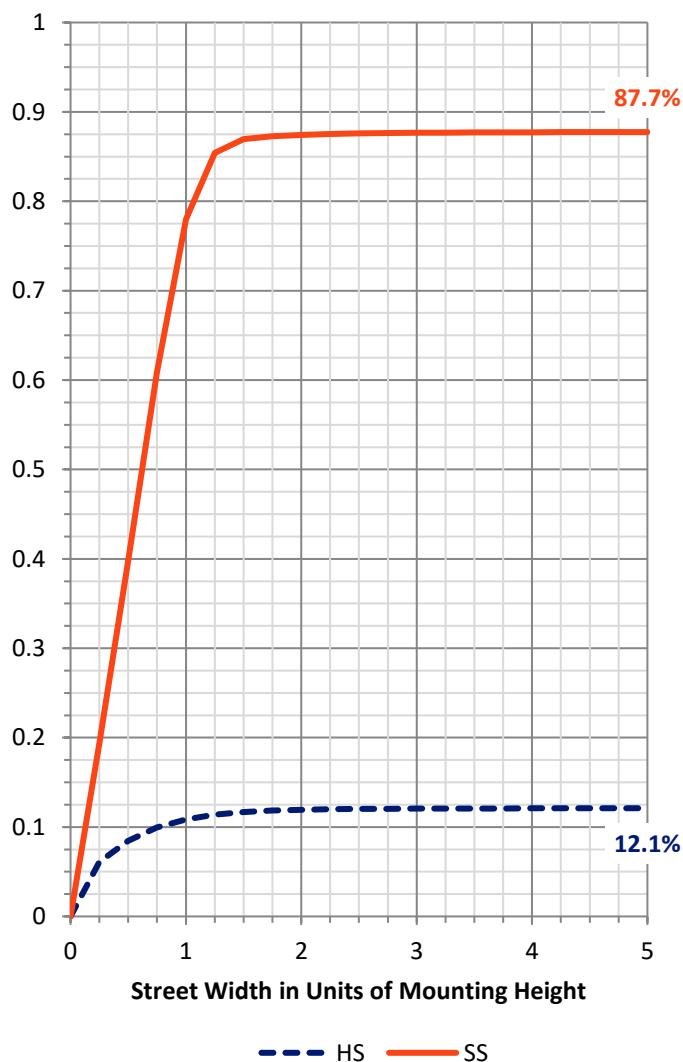
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5933.9	0.0	5933.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	42801.1	0.0	42801.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	48735.0	0.0	48735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1288.2	2.6
10°-20°	3366.4	6.9
20°-30°	5747.9	11.8
30°-40°	10584.7	21.7
40°-50°	16438.0	33.7
50°-60°	9892.9	20.3
60°-70°	1144.2	2.3
70°-80°	221.5	0.5
80°-90°	51.2	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°	48735.0	100.0
0°-180°	48735.0	100.0

Coefficient of Utilization



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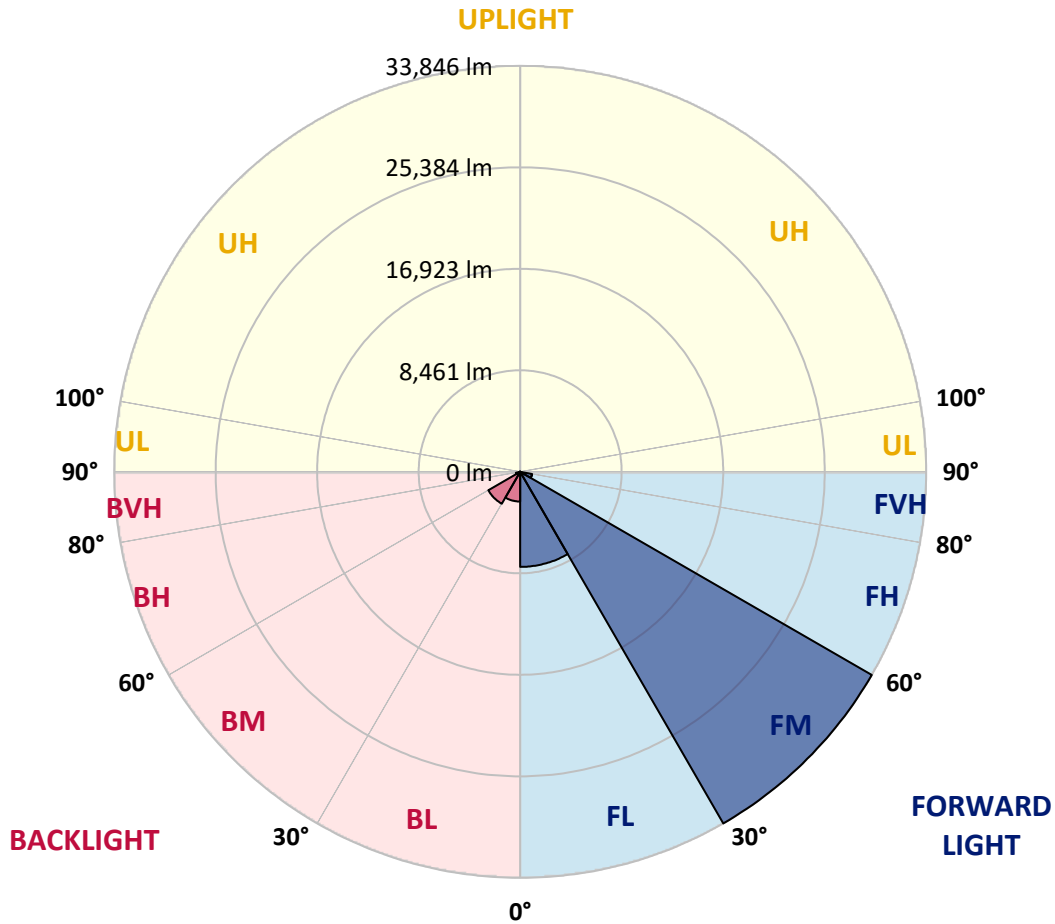
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7923.7	16.3			
FM (30°-60°)	33845.5	69.4			
FH (60°-80°)	1007.6	2.1			G1/1800
FVH (80°-90°)	24.4	0.1			G1/100
BL (0°-30°)	2478.8	5.1	B3/2500		
BM (30°-60°)	3070.1	6.3	B3/5000		
BH (60°-80°)	358.1	0.7	B1/500		G1/500
BVH (80°-90°)	26.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	14073.9	14073.9	14073.9	14073.9	14073.9	14073.9	14073.9	14073.9	14073.9	14073.9	14073.9
2.5°	17057.7	16667.0	16702.5	16446.7	16297.5	16056.0	15729.2	15665.2	15310.0	14826.9	14336.7
5°	18592.3	18499.9	18620.7	18251.3	18265.5	17867.6	17100.3	17114.6	16297.5	15509.0	14748.8
7.5°	18691.7	18478.6	18599.4	18926.2	19118.0	19047.0	18613.6	18237.0	17462.7	16304.6	15196.4
10°	16738.0	17143.0	17270.8	17810.8	18578.1	19388.0	19338.2	19359.5	18713.0	17199.8	15580.0
12.5°	15565.8	15295.8	15729.2	16056.0	17214.0	18784.1	19501.6	19657.9	19707.7	18066.5	15963.6
15°	15033.0	15033.0	15104.0	15196.4	16034.7	17484.0	18947.5	19402.2	20474.9	19203.3	16567.5
17.5°	15366.9	15352.7	15452.1	15260.3	15572.9	16688.3	18436.0	18954.6	21334.6	20318.6	17043.5
20°	16382.8	16432.5	16368.6	15814.4	15835.8	16674.1	17867.6	18684.6	21917.1	21284.8	17675.8
22.5°	17796.6	17825.0	17462.7	16858.8	16681.2	17093.2	18194.4	18819.6	22386.0	22442.9	17867.6
25°	19430.6	19316.9	19245.9	18393.3	17853.4	18208.6	18933.3	19295.6	22677.3	23437.5	18414.7
27.5°	21696.9	21469.6	21036.2	20276.0	19878.2	19373.8	19892.4	20489.2	23508.5	24830.0	19011.4
30°	25043.1	24844.2	23998.7	23018.3	21974.0	21476.7	21640.1	21966.9	25007.6	26442.7	19800.0
32.5°	30080.1	29661.0	28439.0	26570.5	25149.7	23778.5	23735.9	24084.0	26350.3	28673.4	20737.8
35°	35628.7	35500.8	33703.4	31778.1	29028.7	26911.5	26947.1	27131.8	28922.1	31600.5	21966.9
37.5°	39315.9	40019.2	38875.4	36808.0	34499.1	31472.6	30705.3	30769.2	32453.0	35067.4	24183.5
40°	42164.7	41568.0	41703.0	41219.9	39642.7	37582.4	35884.4	35550.5	36538.0	38903.8	26385.8
42.5°	40921.5	40949.9	41781.1	42924.9	43315.7	43166.5	41433.0	40800.7	40033.4	42044.0	28481.6
45°	37411.9	38143.6	39223.5	42250.0	44907.0	47400.7	47059.7	46008.2	42448.9	44530.5	29689.4
47.5°	31813.6	31785.2	33554.2	37490.0	43393.8	49233.6	50782.4	50043.5	44161.1	44253.4	29440.7
48°	29746.2	30257.7	32083.6	36715.6	42434.7	48963.7	51116.3	50185.6	43869.8	43884.0	29227.6
50°	21988.2	21895.8	24169.2	29852.8	37902.1	46008.2	49709.6	50434.3	43862.7	42015.5	27735.7
52.5°	11615.7	12013.6	13668.9	18769.9	26797.9	37653.4	43848.5	44978.1	42313.9	38960.6	25590.1
55°	4937.6	4461.6	5733.3	8475.6	15075.6	25156.8	32168.8	34683.8	35777.9	34477.8	22386.0
57.5°	1761.9	1925.3	2216.6	3189.9	6337.1	13768.4	19181.9	21135.7	24787.3	25298.8	15253.2
60°	1129.6	1150.9	1243.3	1463.5	2380.0	5307.0	9100.8	10656.6	12312.0	12709.8	7118.6
62.5°	873.8	880.9	923.6	959.1	1129.6	2060.3	3417.2	4049.5	4205.8	3616.2	1868.5
65°	731.8	738.9	753.1	753.1	802.8	966.2	1193.5	1314.3	1278.8	1264.6	1058.6
67.5°	561.2	575.5	603.9	603.9	632.3	589.7	660.7	703.3	795.7	966.2	902.3
70°	440.5	447.6	468.9	483.1	483.1	426.3	476.0	518.6	582.6	717.5	710.4
72.5°	341.0	355.2	369.4	369.4	348.1	291.3	341.0	376.5	419.2	497.3	483.1
75°	262.9	262.9	270.0	220.2	170.5	149.2	206.0	248.7	312.6	326.8	270.0
77.5°	71.0	78.1	71.0	63.9	71.0	106.6	135.0	156.3	198.9	198.9	177.6
80°	0.0	7.1	21.3	42.6	71.0	99.5	120.8	135.0	156.3	170.5	163.4
82.5°	0.0	7.1	21.3	42.6	63.9	78.1	106.6	113.7	127.9	149.2	149.2
85°	0.0	7.1	14.2	28.4	42.6	49.7	49.7	42.6	42.6	35.5	28.4
87.5°	0.0	0.0	7.1	14.2	14.2	21.3	21.3	21.3	21.3	21.3	21.3
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°	14073.9	14073.9	14073.9	14073.9	14073.9	14073.9	14073.9	14073.9	14073.9	14073.9	14073.9
2.5°	14144.9	13924.7	13590.8	13065.0	12560.6	12233.8	11921.2	11573.1	11381.3	11367.1	11260.5
5°	14315.4	13818.1	13022.4	12120.1	11153.9	10322.7	9484.4	8937.4	8447.2	8177.2	8127.5
7.5°	14407.8	13761.3	12475.4	10962.1	9313.9	7957.0	7019.2	6330.0	6060.1	5861.1	5854.0
10°	14599.6	13661.8	11658.4	9427.6	7388.6	6017.4	5370.9	5058.3	4909.2	4852.3	4767.1
12.5°	14741.7	13477.1	10820.0	7850.4	5839.8	4987.3	4703.1	4632.1	4639.2	4667.6	4632.1
15°	14940.6	13313.7	9690.4	6443.7	4902.1	4490.0	4490.0	4504.2	4603.7	4617.9	4610.8
17.5°	14926.4	12994.0	8525.3	5307.0	4333.7	4276.9	4298.2	4433.2	4497.1	4518.4	4468.7
20°	15096.9	12695.6	7324.7	4532.6	4014.0	4099.3	4241.3	4276.9	4355.0	4369.2	4312.4
22.5°	15047.2	11949.6	6209.3	3921.6	3772.4	3935.8	4077.9	4120.6	4099.3	4056.6	4049.5
25°	14954.8	11310.2	5186.2	3516.7	3594.8	3772.4	3907.4	3829.3	3786.7	3793.8	3800.9
27.5°	14791.4	10500.3	4340.8	3232.5	3353.3	3616.2	3609.0	3580.6	3623.3	3587.7	3623.3
30°	14763.0	9690.4	3644.6	2976.8	3175.7	3367.5	3381.7	3431.4	3481.2	3417.2	3481.2
32.5°	14805.6	8802.4	3147.3	2820.5	3069.1	3076.2	3232.5	3282.2	3246.7	3104.6	3118.8
35°	15132.4	8120.4	2784.9	2735.2	2898.6	2905.7	3054.9	2991.0	2834.7	2749.4	2799.1
37.5°	15821.5	7552.0	2614.4	2657.1	2671.3	2763.6	2770.7	2642.8	2657.1	2649.9	2678.4
40°	16702.5	7118.6	2493.7	2586.0	2571.8	2635.7	2380.0	2451.0	2515.0	2536.3	2550.5
42.5°	17306.4	6806.0	2415.5	2472.3	2443.9	2330.3	2188.2	2259.2	2308.9	2387.1	2401.3
45°	17576.3	6557.4	2323.1	2273.4	2273.4	2067.4	2010.6	2024.8	2138.4	2223.7	2209.5
47.5°	17135.9	6315.8	2159.7	2010.6	2060.3	1889.8	1825.8	1825.8	1946.6	2053.2	2031.9
48°	16965.4	6216.4	2166.8	1953.7	1989.2	1861.4	1797.4	1783.2	1918.2	2017.7	2017.7
50°	16119.9	5846.9	1982.1	1797.4	1726.4	1712.2	1669.5	1683.7	1769.0	1861.4	1861.4
52.5°	14471.7	5051.2	1676.6	1541.7	1413.8	1499.0	1520.3	1491.9	1534.6	1619.8	1612.7
55°	12077.5	3879.0	1342.7	1278.8	1179.3	1271.7	1314.3	1278.8	1236.2	1300.1	1300.1
57.5°	7736.7	2088.7	1072.8	1087.0	987.5	1079.9	1115.4	1030.1	952.0	1001.7	994.6
60°	3488.3	1250.4	880.9	859.6	795.7	902.3	959.1	859.6	753.1	788.6	824.1
62.5°	1307.2	888.1	667.8	653.6	639.4	738.9	767.3	689.1	582.6	603.9	611.0
65°	959.1	781.5	532.8	483.1	511.5	582.6	568.4	490.2	419.2	419.2	433.4
67.5°	817.0	682.0	433.4	376.5	376.5	383.6	355.2	312.6	291.3	305.5	319.7
70°	639.4	539.9	341.0	291.3	262.9	234.4	206.0	198.9	177.6	198.9	191.8
72.5°	412.1	362.3	262.9	220.2	198.9	163.4	135.0	127.9	106.6	99.5	99.5
75°	220.2	220.2	206.0	177.6	156.3	127.9	106.6	85.3	56.8	42.6	42.6
77.5°	156.3	170.5	184.7	170.5	142.1	106.6	85.3	56.8	28.4	14.2	14.2
80°	149.2	170.5	184.7	163.4	142.1	106.6	78.1	42.6	21.3	7.1	7.1
82.5°	135.0	156.3	170.5	149.2	127.9	92.4	71.0	42.6	21.3	7.1	7.1
85°	28.4	35.5	42.6	42.6	49.7	63.9	49.7	35.5	14.2	7.1	7.1
87.5°	21.3	21.3	21.3	21.3	21.3	21.3	14.2	14.2	7.1	7.1	7.1
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)