

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: P533363

Luminaire Tested: **GALN-SA8D-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38486 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

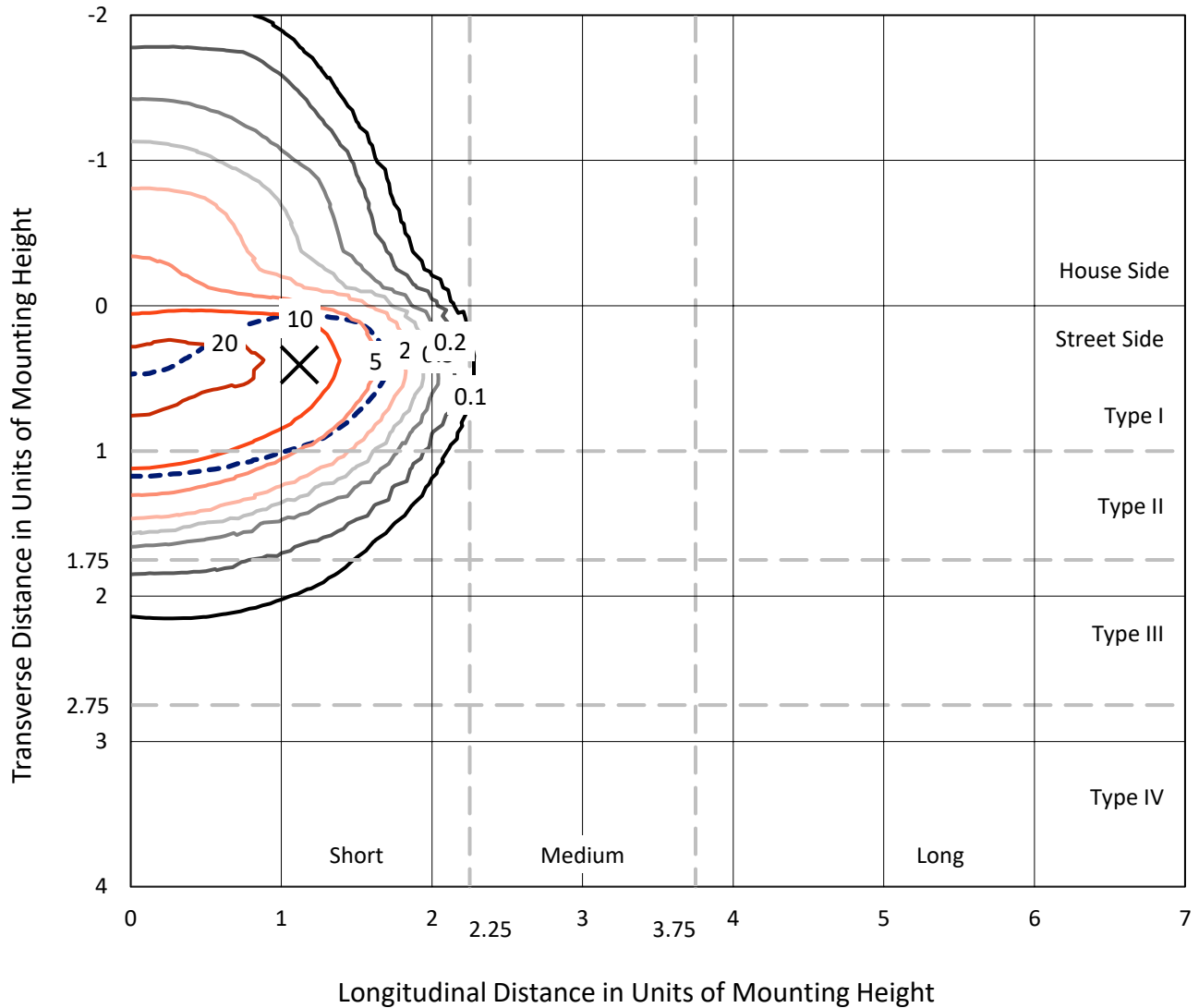
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

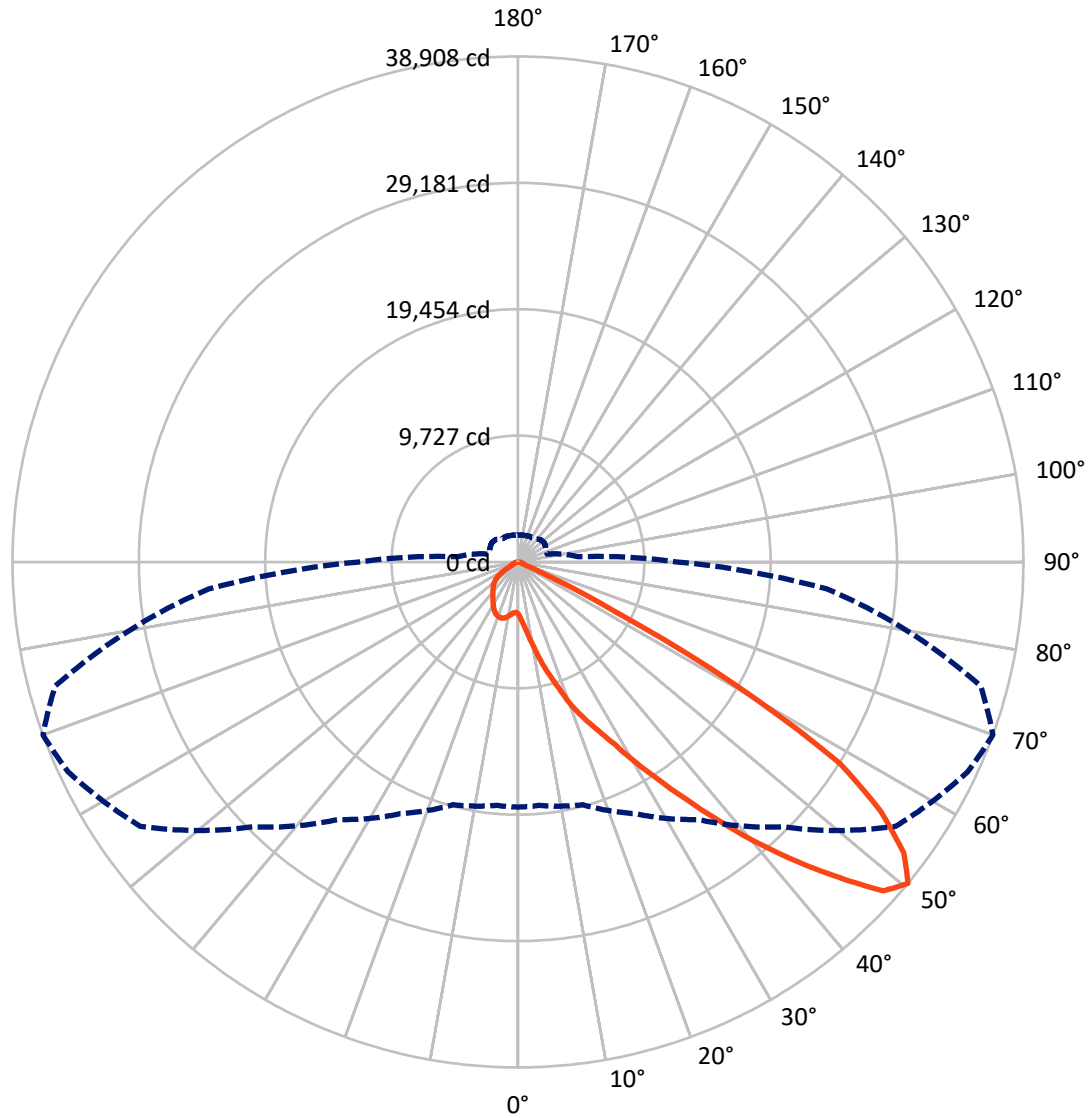
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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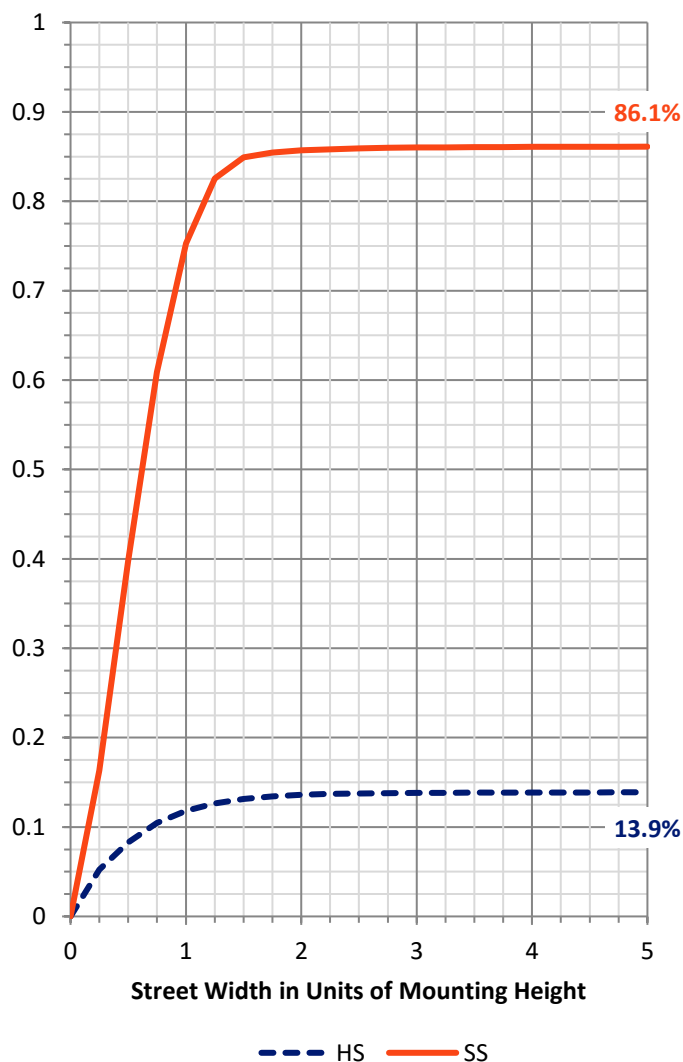
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5374.8	0.0	5374.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	33111.2	0.0	33111.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	38486.0	0.0	38486.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.4	1.3
10°-20°	2242.3	5.8
20°-30°	4704.0	12.2
30°-40°	8108.1	21.1
40°-50°	11849.9	30.8
50°-60°	9229.1	24.0
60°-70°	1563.7	4.1
70°-80°	214.8	0.6
80°-90°	55.7	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°	38486.0	100.0
0°-180°	38486.0	100.0

Coefficient of Utilization



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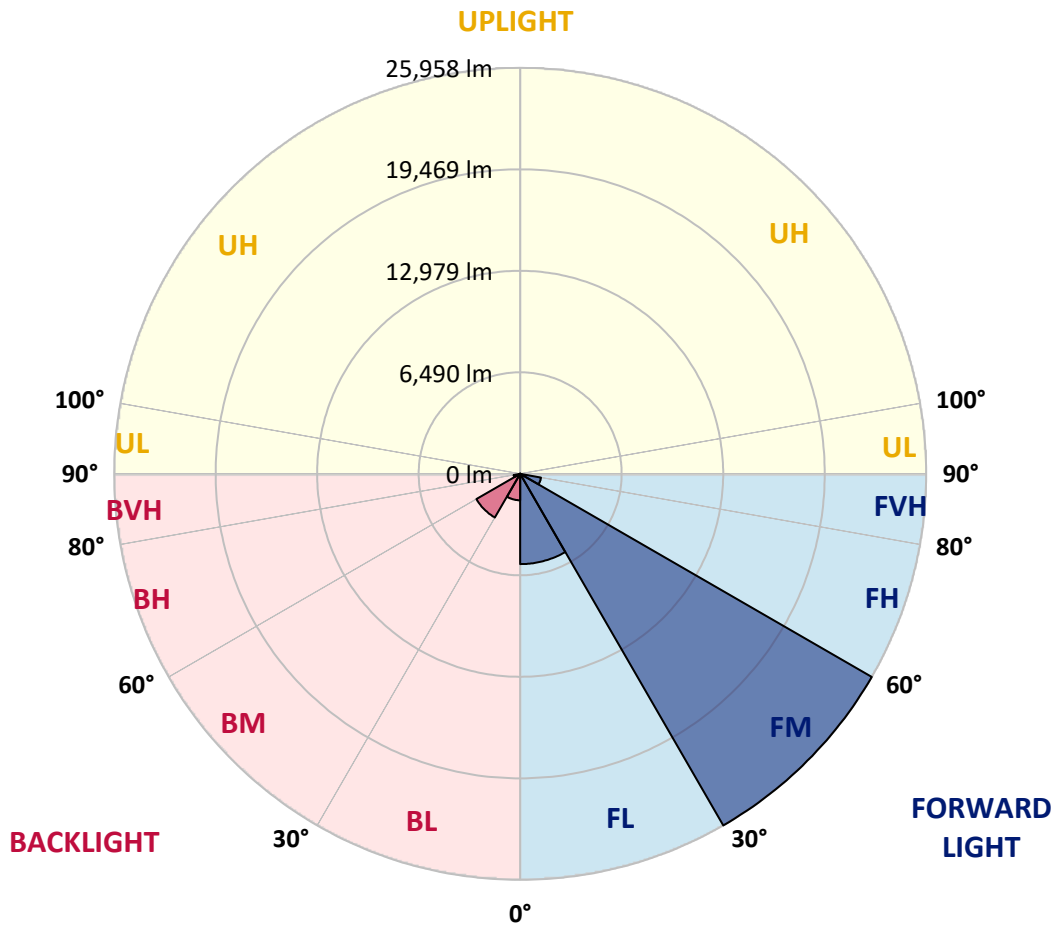
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5773.4	15.0			
FM (30°-60°)	25958.1	67.4			
FH (60°-80°)	1353.9	3.5			G1/1800
FVH (80°-90°)	25.7	0.1			G1/100
BL (0°-30°)	1691.3	4.4	B3/2500		
BM (30°-60°)	3229.0	8.4	B3/5000		
BH (60°-80°)	424.6	1.1	B1/500		G1/500
BVH (80°-90°)	29.9	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3986.4	3986.4	3986.4	3986.4	3986.4	3986.4	3986.4	3986.4	3986.4	3986.4	3986.4
2.5°	5220.3	5182.3	5100.1	4948.2	4884.9	4733.0	4644.5	4473.6	4366.0	4245.8	4112.9
5°	7352.7	7156.5	7036.3	6865.5	6365.6	6055.5	5543.0	5106.4	4903.9	4682.4	4378.7
7.5°	9554.7	9428.1	9263.6	8896.6	8554.9	7909.5	7030.0	6068.2	5656.9	5277.2	4676.1
10°	11377.0	11022.7	11003.7	10731.6	10358.3	9586.3	8529.6	7333.7	6599.7	6042.9	5100.1
12.5°	12648.9	12326.2	12471.7	12440.1	12092.1	11383.4	10162.1	8580.2	7814.6	6947.7	5536.7
15°	13806.8	13674.0	13629.7	13591.7	13452.5	12927.3	11832.6	10098.9	8991.5	7947.5	6030.2
17.5°	14939.5	14597.8	14762.3	14793.9	14781.3	14306.7	13281.6	11541.6	10238.1	9004.2	6549.1
20°	15945.6	15977.2	15755.7	15711.4	15673.5	15654.5	14654.7	12971.6	11769.3	10111.5	7226.1
22.5°	17236.4	17014.9	17211.1	17084.5	16837.8	16685.9	15920.3	14237.1	13098.1	11446.6	7915.8
25°	18761.4	18938.5	18476.6	18426.0	18153.9	17628.7	16939.0	15654.5	14376.3	12686.8	8662.5
27.5°	20640.7	20330.6	20210.4	19932.0	19438.4	19216.9	18407.0	17116.2	15920.3	13990.3	9383.8
30°	22254.2	22171.9	21570.8	21241.8	20811.5	20805.2	19672.5	19096.7	17932.4	16034.2	10377.3
32.5°	23570.3	23209.7	22988.2	22760.4	22412.4	22507.3	21551.8	21248.1	20077.5	17932.4	11547.9
35°	24449.9	24190.4	24057.6	23709.5	23608.3	24032.2	23633.6	23507.1	22545.3	20602.7	12921.0
37.5°	24728.3	24810.5	24785.2	24348.6	24563.8	25709.1	26221.6	25892.6	25386.4	23418.5	14408.0
40°	24975.1	25032.0	24905.5	25418.0	26031.8	27335.3	29189.2	28645.1	28455.2	26272.2	16477.1
42.5°	25114.3	25070.0	25070.0	25955.8	26886.0	29505.6	32055.7	31695.0	31549.4	29309.5	18868.9
45°	24513.1	24082.9	24544.8	25747.0	27620.0	30575.0	34346.2	34846.1	34637.3	32922.5	21665.7
47.5°	22266.8	22532.6	22792.0	24399.2	26727.8	30246.0	35751.0	37453.1	37839.1	35959.8	23500.7
50°	18868.9	18812.0	19349.8	21374.7	24203.1	28828.6	35478.9	38206.1	38908.4	36871.0	23886.7
52.5°	13724.6	14142.2	14724.3	16736.5	20090.1	25158.6	31967.1	36263.5	37200.0	35751.0	23633.6
55°	7991.8	7529.9	8839.7	10541.8	13705.6	18976.5	27025.2	32144.2	33878.0	33713.5	22355.4
57.5°	3201.8	3100.5	3549.8	4783.7	7150.2	11763.0	19653.5	26411.4	29189.2	30878.7	19647.2
60°	1404.7	1373.1	1613.5	1948.9	2923.4	5422.8	10750.6	16426.5	19324.5	21577.1	13522.1
62.5°	1012.4	999.8	1120.0	1240.2	1543.9	2360.2	4517.9	6618.7	8251.2	9966.0	6055.5
65°	816.3	847.9	930.2	993.4	1139.0	1309.8	1594.6	1841.3	2259.0	2341.2	1335.1
67.5°	664.4	689.7	765.6	835.2	860.6	708.7	734.0	645.4	645.4	575.8	461.9
70°	487.2	493.6	582.1	664.4	531.5	284.7	499.9	499.9	449.3	430.3	392.3
72.5°	360.7	367.0	436.6	411.3	208.8	177.2	367.0	405.0	367.0	348.0	316.4
75°	265.8	272.1	227.8	94.9	88.6	113.9	215.1	278.4	265.8	259.4	240.4
77.5°	50.6	38.0	31.6	44.3	63.3	94.9	139.2	170.8	177.2	189.8	177.2
80°	6.3	6.3	19.0	38.0	69.6	101.2	145.5	164.5	170.8	177.2	164.5
82.5°	0.0	6.3	19.0	38.0	69.6	94.9	126.6	145.5	158.2	164.5	158.2
85°	0.0	6.3	12.7	31.6	56.9	69.6	63.3	44.3	38.0	44.3	31.6
87.5°	0.0	0.0	6.3	6.3	12.7	12.7	12.7	12.7	12.7	12.7	12.7
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°	3986.4	3986.4	3986.4	3986.4	3986.4	3986.4	3986.4	3986.4	3986.4	3986.4	3986.4
2.5°	4037.0	4011.7	3923.1	3828.2	3745.9	3783.9	3745.9	3714.3	3727.0	3714.3	3701.6
5°	4258.5	4144.6	3954.8	3872.5	3802.9	3796.6	3777.6	3771.3	3777.6	3777.6	3720.6
7.5°	4467.3	4283.8	4081.3	3992.7	3910.5	3916.8	3872.5	3872.5	3866.2	3834.5	3821.9
10°	4783.7	4536.9	4277.5	4119.3	4018.0	3999.0	3954.8	3910.5	3910.5	3910.5	3847.2
12.5°	5131.7	4821.6	4467.3	4283.8	4163.6	4068.7	3999.0	3986.4	3916.8	3904.1	3872.5
15°	5435.4	5043.1	4593.8	4340.7	4188.9	4062.3	3954.8	3885.2	3853.5	3834.5	3809.2
17.5°	5732.8	5232.9	4663.4	4340.7	4176.2	4030.7	3916.8	3853.5	3777.6	3790.2	3739.6
20°	6131.5	5435.4	4682.4	4258.5	4056.0	3916.8	3764.9	3733.3	3689.0	3651.0	3663.7
22.5°	6517.4	5580.9	4625.5	4157.2	3866.2	3701.6	3625.7	3587.8	3568.8	3537.1	3492.8
25°	6865.5	5739.1	4536.9	3973.7	3663.7	3543.5	3473.9	3467.5	3423.2	3423.2	3341.0
27.5°	7219.8	5796.1	4385.0	3758.6	3486.5	3416.9	3385.3	3372.6	3353.6	3309.3	3252.4
30°	7624.8	5815.1	4163.6	3537.1	3328.3	3252.4	3296.7	3328.3	3246.1	3163.8	3189.1
32.5°	7960.1	5770.8	3897.8	3328.3	3214.4	3176.5	3265.0	3296.7	3201.8	3113.2	3068.9
35°	8365.1	5663.2	3638.4	3163.8	3100.5	3176.5	3252.4	3252.4	3062.6	2955.0	2929.7
37.5°	8978.9	5543.0	3397.9	3024.6	2980.3	3138.5	3239.7	3170.1	2872.7	2739.9	2708.2
40°	9636.9	5467.1	3163.8	2885.4	2917.0	3075.2	3132.2	2917.0	2613.3	2531.0	2505.7
42.5°	10592.4	5315.2	2955.0	2765.2	2860.1	2986.6	2986.6	2600.6	2486.7	2442.5	2436.1
45°	11782.0	5207.6	2771.5	2663.9	2777.8	2809.5	2708.2	2436.1	2353.9	2341.2	2347.5
47.5°	12364.1	4998.8	2581.7	2543.7	2626.0	2632.3	2366.5	2303.2	2233.6	2214.7	2202.0
50°	12275.6	4625.5	2334.9	2385.5	2499.4	2436.1	2157.7	2170.4	2107.1	2100.8	2069.1
52.5°	11655.5	4037.0	2088.1	2208.3	2334.9	2151.4	1986.9	1974.2	1974.2	1892.0	1860.3
55°	10333.0	3252.4	1790.7	1942.6	2094.4	1809.7	1765.4	1752.7	1721.1	1645.2	1626.2
57.5°	8181.6	2385.5	1347.8	1512.3	1778.1	1537.6	1531.3	1474.3	1392.1	1335.1	1335.1
60°	4865.9	1373.1	847.9	923.8	1176.9	1246.5	1385.7	1360.4	1221.2	1132.6	1107.3
62.5°	2221.0	708.7	537.8	550.5	632.8	809.9	1088.3	1259.2	1063.0	911.2	898.5
65°	746.7	525.2	442.9	423.9	436.6	487.2	651.7	892.2	847.9	702.4	677.1
67.5°	455.6	468.2	417.6	386.0	386.0	379.7	373.3	405.0	499.9	487.2	493.6
70°	392.3	430.3	386.0	348.0	335.4	316.4	265.8	221.5	189.8	221.5	234.1
72.5°	316.4	341.7	329.0	297.4	265.8	240.4	189.8	145.5	107.6	94.9	94.9
75°	234.1	253.1	265.8	227.8	202.5	170.8	139.2	94.9	56.9	38.0	38.0
77.5°	170.8	189.8	196.2	177.2	151.9	120.2	88.6	63.3	31.6	12.7	12.7
80°	145.5	170.8	189.8	177.2	158.2	113.9	82.3	44.3	25.3	6.3	6.3
82.5°	139.2	170.8	189.8	170.8	151.9	107.6	82.3	50.6	19.0	6.3	6.3
85°	31.6	44.3	56.9	69.6	82.3	82.3	63.3	38.0	19.0	6.3	6.3
87.5°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	6.3	6.3	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)