

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: P453217

Luminaire Tested: **GALN-SA4B-727-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18427 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

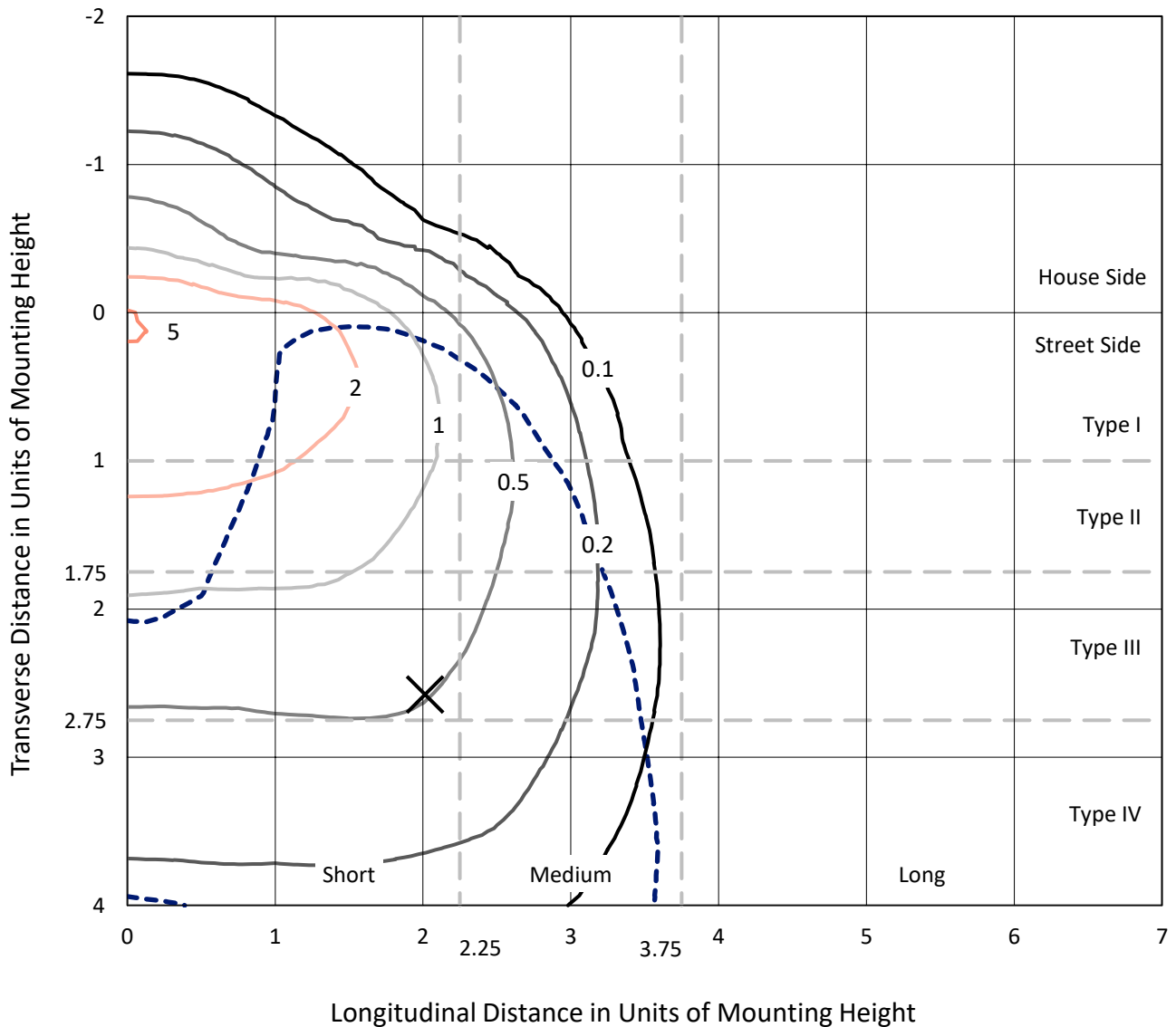
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

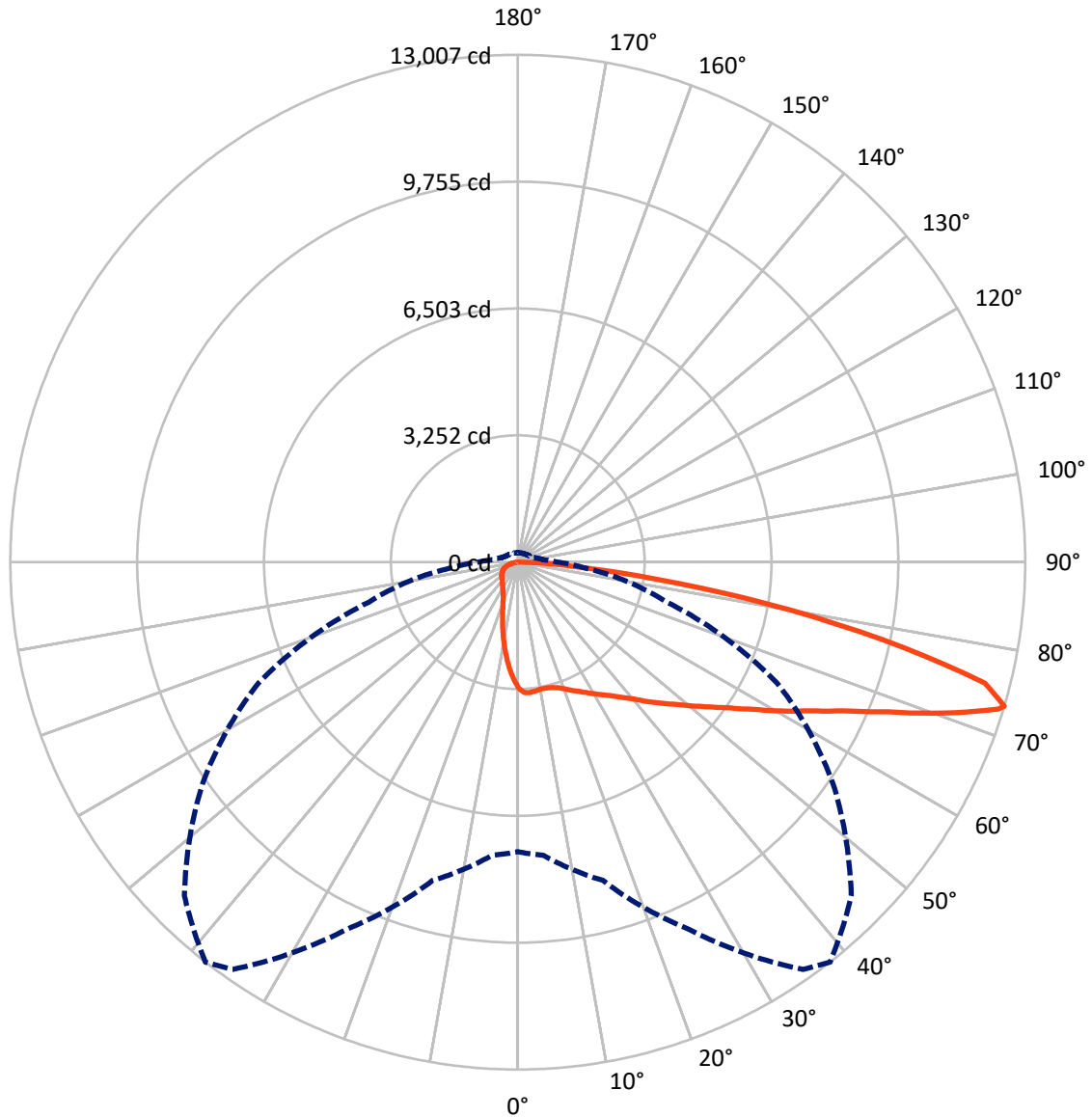
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2477.1	0.0	2477.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	15949.9	0.0	15949.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	18427.0	0.0	18427.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.6	1.5
10°-20°	724.6	3.9
20°-30°	1128.4	6.1
30°-40°	1655.1	9.0
40°-50°	2455.1	13.3
50°-60°	3478.4	18.9
60°-70°	4412.5	23.9
70°-80°	3673.1	19.9
80°-90°	617.1	3.3
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°	18427.0	100.0
0°-180°	18427.0	100.0

Coefficient of Utilization

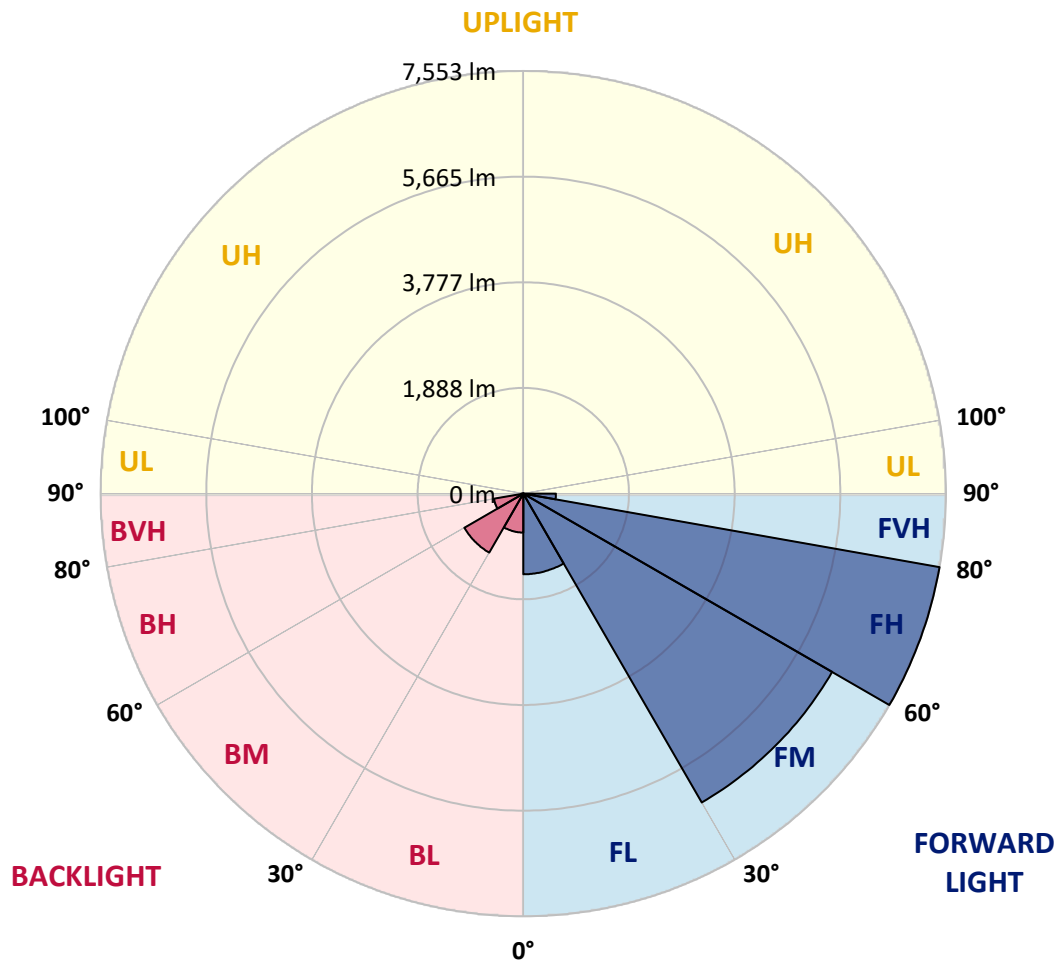


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1440.5	7.8			
FM (30°-60°)	6372.5	34.6			
FH (60°-80°)	7553.1	41.0			G4/12000
FVH (80°-90°)	583.7	3.2			G4/750
BL (0°-30°)	695.1	3.8	B2/1000		
BM (30°-60°)	1216.1	6.6	B2/2500		
BH (60°-80°)	532.4	2.9	B2/1000		G2/1000
BVH (80°-90°)	33.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3
2.5°	3367.4	3384.0	3375.7	3364.3	3357.0	3349.7	3339.3	3309.1	3285.2	3259.2	3218.6
5°	3392.4	3402.8	3395.5	3380.9	3364.3	3357.0	3337.2	3297.7	3259.2	3215.5	3155.1
7.5°	3377.8	3382.0	3373.6	3355.9	3341.4	3327.8	3305.0	3261.2	3214.4	3161.3	3082.3
10°	3325.8	3341.4	3341.4	3326.8	3312.2	3305.0	3282.1	3240.4	3197.8	3137.4	3043.8
12.5°	3283.1	3299.7	3313.3	3309.1	3308.1	3308.1	3290.4	3259.2	3209.2	3152.0	3040.6
15°	3254.0	3273.7	3302.9	3319.5	3329.9	3333.0	3325.8	3298.7	3247.7	3181.1	3053.1
17.5°	3247.7	3271.7	3324.7	3361.1	3388.2	3387.2	3385.1	3347.6	3291.4	3222.7	3068.7
20°	3275.8	3307.0	3380.9	3438.1	3477.7	3470.4	3459.0	3410.1	3344.5	3267.5	3083.3
22.5°	3360.1	3392.4	3473.5	3536.0	3574.5	3574.5	3540.1	3475.6	3405.9	3319.5	3103.1
25°	3480.8	3516.2	3602.6	3666.0	3683.7	3670.2	3635.9	3557.8	3477.7	3394.4	3144.7
27.5°	3628.6	3671.2	3751.4	3804.4	3799.2	3788.8	3753.4	3653.6	3573.4	3497.5	3215.5
30°	3812.8	3844.0	3927.2	3939.7	3921.0	3918.9	3869.0	3769.1	3694.1	3635.9	3316.4
32.5°	3986.5	4014.6	4081.2	4086.4	4053.1	4057.3	4010.5	3918.9	3876.2	3855.4	3486.0
35°	4170.7	4185.3	4242.5	4236.3	4214.4	4211.3	4192.6	4105.2	4118.7	4156.2	3726.4
37.5°	4324.7	4353.9	4386.1	4391.3	4390.3	4400.7	4413.2	4371.6	4449.6	4567.2	4041.7
40°	4466.3	4491.2	4539.1	4555.8	4596.3	4617.1	4659.8	4660.9	4840.9	5034.4	4429.8
42.5°	4562.0	4604.7	4694.2	4724.3	4823.2	4885.6	4949.1	5016.7	5277.9	5526.6	4887.7
45°	4645.2	4701.4	4850.2	4943.9	5078.1	5154.1	5288.3	5429.9	5805.5	6131.2	5352.9
47.5°	4771.2	4821.1	4991.8	5157.2	5360.1	5447.5	5648.4	5859.6	6350.8	6707.7	5798.2
50°	4946.0	4976.2	5149.9	5419.5	5678.6	5790.9	6056.3	6361.2	6933.5	7276.9	6189.5
52.5°	5169.7	5182.2	5320.6	5679.6	6020.9	6160.4	6512.1	6868.0	7443.4	7771.2	6499.6
55°	5434.0	5413.2	5521.4	5955.4	6412.2	6594.3	6972.0	7381.0	8016.8	8170.8	6725.4
57.5°	5695.2	5663.0	5749.3	6290.4	6895.0	7114.6	7554.8	7909.6	8528.8	8544.4	6883.6
60°	5972.0	5948.1	6051.1	6683.8	7487.1	7747.3	8154.2	8458.0	9024.1	8804.5	6908.6
62.5°	6256.1	6217.6	6364.3	7126.0	8154.2	8390.4	8784.8	9040.7	9510.1	8901.3	6668.2
65°	6531.9	6514.2	6741.0	7651.5	8913.8	9182.3	9565.2	9739.0	9899.2	8755.6	6071.9
67.5°	6825.3	6860.7	7222.8	8352.9	9904.4	10241.6	10654.7	10491.3	10010.6	8065.7	5113.5
70°	7272.8	7295.7	7855.5	9271.8	11181.3	11588.1	11787.9	10758.8	9473.6	6755.6	3844.0
72.5°	7465.3	7566.2	8420.5	10236.4	12631.9	12880.6	12168.8	10162.5	7891.9	4589.1	2019.8
73°	7422.6	7543.3	8446.6	10383.1	12745.3	13006.5	12087.6	9855.5	7336.2	3952.2	1731.6
75°	6890.9	7039.7	8108.4	10260.3	12524.7	12368.6	10782.7	8399.7	4957.4	1797.1	788.8
77.5°	5437.1	5479.8	6424.7	8285.3	9862.8	9573.5	8069.9	5249.8	2025.0	668.1	447.5
80°	2727.4	2884.5	3621.3	4746.2	6595.3	6500.6	5093.7	2482.9	843.9	392.3	296.6
82.5°	1312.2	1423.5	1763.8	2314.3	3644.2	3557.8	2522.4	1356.9	535.9	228.9	174.8
85°	845.0	928.2	1122.8	1104.1	1498.5	1430.8	1133.2	1027.1	317.4	119.7	121.8
87.5°	557.8	610.8	732.6	585.9	545.3	493.2	500.5	578.6	62.4	45.8	16.6
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°	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3
2.5°	3201.9	3188.4	3143.7	3100.0	3058.3	3018.8	2992.8	2958.4	2935.5	2941.8	2951.1
5°	3121.8	3091.6	3012.5	2935.5	2862.7	2776.3	2706.6	2650.4	2607.7	2592.1	2589.0
7.5°	3037.5	2986.5	2873.1	2740.9	2617.1	2509.9	2386.1	2324.7	2252.9	2227.9	2219.6
10°	2986.5	2917.8	2758.6	2574.4	2388.2	2210.2	2076.0	1966.7	1867.9	1849.1	1839.8
12.5°	2972.0	2881.4	2667.1	2429.8	2182.1	1963.6	1764.9	1621.3	1525.5	1503.7	1471.4
15°	2963.6	2851.2	2581.7	2284.1	1969.9	1703.5	1494.3	1326.8	1239.4	1181.1	1182.1
17.5°	2956.3	2816.9	2486.0	2124.9	1786.7	1479.7	1248.7	1097.8	1017.7	986.5	983.4
20°	2945.9	2776.3	2375.7	1957.4	1577.6	1275.8	1066.6	954.2	900.1	874.1	873.1
22.5°	2941.8	2736.8	2267.5	1786.7	1392.3	1118.6	945.9	866.8	832.5	814.8	814.8
25°	2952.2	2708.7	2154.0	1624.4	1227.9	984.4	862.7	808.5	788.8	779.4	776.3
27.5°	2984.4	2696.2	2041.7	1462.0	1077.0	892.8	806.5	769.0	754.4	747.2	748.2
30°	3045.8	2695.2	1931.4	1301.8	964.6	823.1	761.7	735.7	724.3	720.1	719.1
32.5°	3144.7	2718.1	1823.1	1169.6	869.9	764.8	720.1	701.4	696.2	693.0	692.0
35°	3312.2	2782.6	1716.0	1048.9	797.1	712.8	680.6	671.2	663.9	667.0	668.1
37.5°	3538.0	2893.9	1614.0	954.2	741.9	674.3	647.3	638.9	634.8	637.9	641.0
40°	3840.9	3054.2	1528.6	878.3	702.4	642.1	618.1	610.8	606.7	611.9	612.9
42.5°	4174.9	3239.4	1457.9	819.0	670.1	615.0	592.1	583.8	580.7	583.8	584.8
45°	4518.3	3454.8	1421.5	776.3	643.1	595.2	571.3	561.9	554.6	552.6	555.7
47.5°	4856.5	3642.1	1420.4	750.3	621.2	577.5	551.5	541.1	531.7	526.5	525.5
50°	5132.2	3790.9	1445.4	738.8	602.5	557.8	531.7	521.3	508.9	498.4	500.5
52.5°	5340.4	3887.7	1456.8	733.6	592.1	537.0	510.9	501.6	487.0	473.5	473.5
55°	5474.6	3910.6	1428.7	728.4	583.8	515.1	487.0	478.7	464.1	450.6	450.6
57.5°	5520.4	3839.8	1327.8	715.9	575.5	496.4	463.1	455.8	444.3	430.8	428.7
60°	5414.3	3600.5	1150.9	678.5	558.8	476.6	437.1	433.9	429.8	418.3	417.3
62.5°	5005.3	3092.7	958.4	629.6	530.7	455.8	413.1	418.3	421.4	415.2	414.2
65°	4324.7	2511.0	819.0	561.9	493.2	426.6	387.1	400.6	409.0	409.0	406.9
67.5°	3507.9	1928.2	689.9	503.7	446.4	387.1	358.0	368.4	374.6	372.5	377.7
70°	2493.3	1306.0	561.9	437.1	387.1	342.4	320.5	320.5	316.3	314.3	314.3
72.5°	1209.2	746.1	455.8	365.3	329.9	292.4	274.7	267.4	259.1	258.1	252.9
73°	1010.4	669.1	435.0	351.7	316.3	285.1	265.4	253.9	248.7	244.5	243.5
75°	615.0	507.8	363.2	296.6	269.5	245.6	227.9	217.5	212.3	209.2	208.1
77.5°	404.8	378.8	282.0	226.9	206.0	191.5	184.2	173.8	170.7	166.5	166.5
80°	301.8	289.3	201.9	160.3	147.8	135.3	133.2	131.1	122.8	117.6	115.5
82.5°	194.6	206.0	137.4	107.2	93.7	83.2	84.3	87.4	79.1	71.8	69.7
85°	138.4	148.8	83.2	48.9	39.5	34.3	38.5	34.3	35.4	28.1	22.9
87.5°	22.9	39.5	14.6	6.2	3.1	2.1	0.0	0.0	0.0	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)