

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: P530598

Luminaire Tested: **GALN-SA5D-750-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530598
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-SA5D-750-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA 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: 32836 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

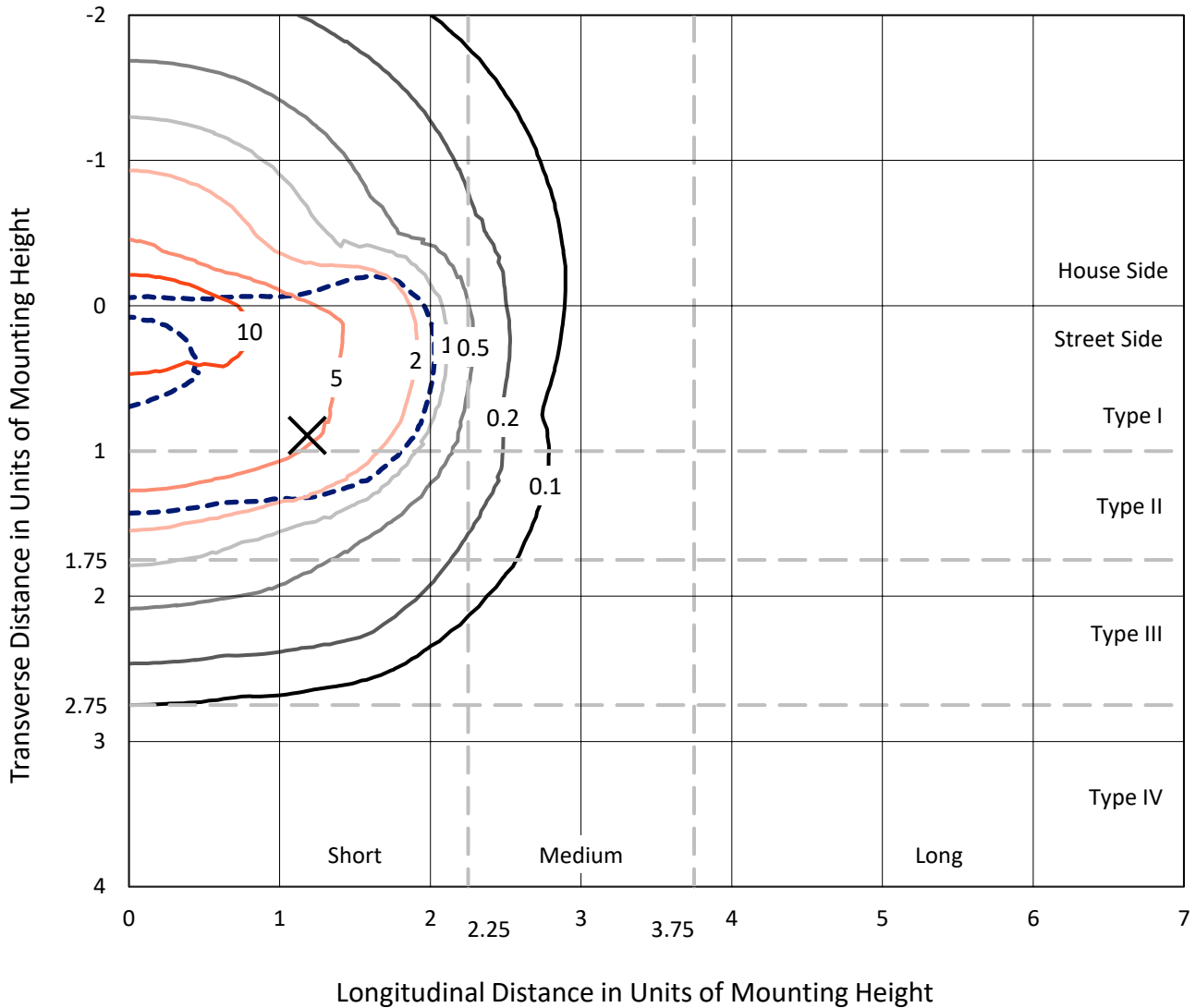
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

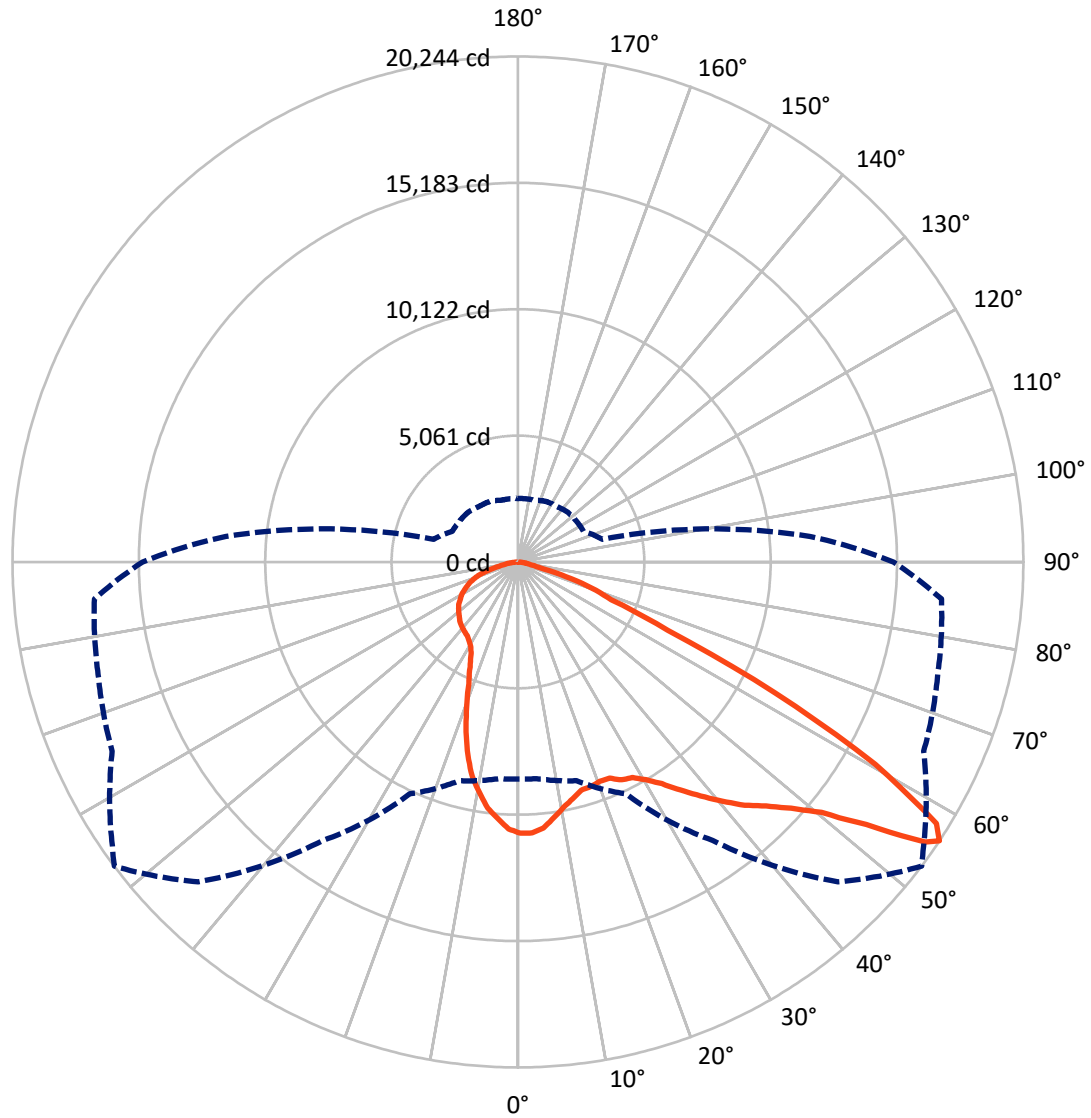
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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	9582.3	0.0	9582.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	23253.7	0.0	23253.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	32836.0	0.0	32836.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	961.7	2.9
10°-20°	2402.0	7.3
20°-30°	3541.9	10.8
30°-40°	5060.7	15.4
40°-50°	6965.4	21.2
50°-60°	8231.2	25.1
60°-70°	4386.7	13.4
70°-80°	1112.9	3.4
80°-90°	173.5	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°	32836.0	100.0
0°-180°	32836.0	100.0



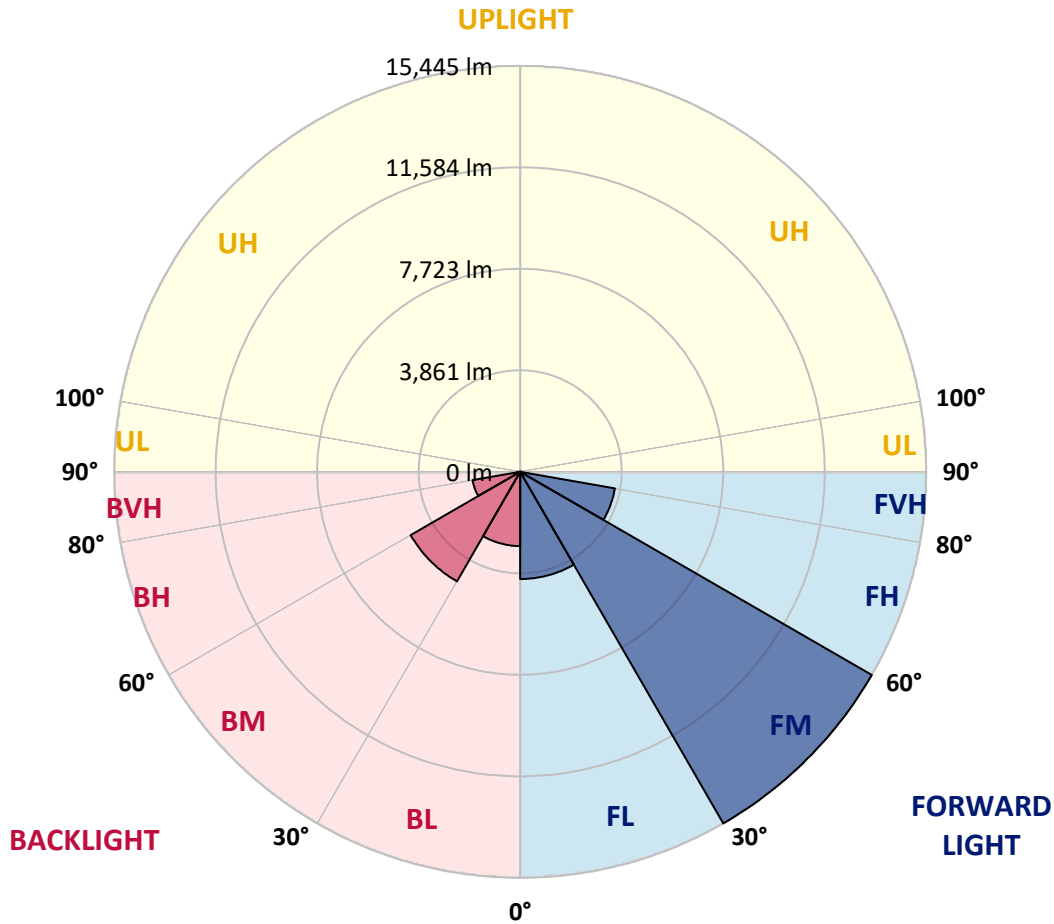
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4079.4	12.4			
FM (30°-60°)	15445.4	47.0			
FH (60°-80°)	3659.2	11.1			G2/5000
FVH (80°-90°)	69.8	0.2			G1/100
BL (0°-30°)	2826.2	8.6	B4/5000		
BM (30°-60°)	4811.9	14.7	B3/5000		
BH (60°-80°)	1840.4	5.6	B3/2500		G3/2500
BVH (80°-90°)	103.8	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°	10863.4	10863.4	10863.4	10863.4	10863.4	10863.4	10863.4	10863.4	10863.4	10863.4	10863.4
2.5°	10728.7	10636.0	10690.7	10669.7	10842.4	10892.9	10867.7	10888.7	10985.6	10939.3	10842.4
5°	10025.2	10155.8	10181.1	10244.2	10345.3	10543.3	10699.2	10741.3	10787.6	11002.4	10981.4
7.5°	9384.9	9473.4	9427.1	9612.4	9831.4	10151.6	10341.1	10374.8	10800.3	10918.2	11006.7
10°	8980.6	8892.1	9102.7	9153.3	9401.8	9768.3	9995.7	10134.7	10522.2	10989.8	11044.6
12.5°	8605.7	8576.2	8702.5	8845.8	9123.8	9502.9	9734.6	9789.3	10387.5	10880.3	11137.2
15°	8327.7	8294.0	8420.3	8525.6	8850.0	9187.0	9481.8	9637.7	10240.0	10817.1	11057.2
17.5°	8108.6	8104.4	8176.0	8365.6	8698.3	8980.6	9456.5	9465.0	10164.2	10914.0	11124.6
20°	8096.0	8091.8	8104.4	8315.0	8618.3	8963.7	9376.5	9452.3	10164.2	10846.6	11128.8
22.5°	8201.3	8133.9	8209.7	8344.5	8563.5	8993.2	9406.0	9574.5	10408.5	11179.4	11318.4
25°	8369.8	8386.6	8428.8	8475.1	8601.5	9060.6	9667.2	9806.2	10695.0	11465.8	11579.5
27.5°	8677.3	8668.9	8685.7	8711.0	8820.5	9123.8	9772.5	10130.5	11293.1	11975.5	11861.8
30°	9128.0	9098.5	9165.9	9254.4	9153.3	9326.0	10122.1	10391.7	11849.1	12489.4	12177.7
32.5°	9536.6	9646.1	9772.5	9810.4	9688.2	9721.9	10585.4	10859.2	12312.5	13121.2	12565.2
35°	10046.3	10134.7	10303.2	10421.2	10400.1	10299.0	11217.3	11579.5	12982.2	13584.6	12973.8
37.5°	10543.3	10648.6	10926.6	11276.2	11082.5	11036.1	11891.2	12190.3	13188.6	13833.1	13272.9
40°	11343.6	11339.4	11819.6	12000.8	12173.5	12093.4	12590.5	12691.6	13298.1	13778.3	13281.3
42.5°	12283.0	12224.0	12712.6	12994.9	13218.1	13226.5	13319.2	13285.5	13348.7	13500.3	13192.8
45°	13176.0	13302.3	13795.2	14300.7	14523.9	14549.2	13934.2	13871.0	13437.1	13420.3	13024.3
47.5°	14267.0	14296.4	14700.8	15366.4	15884.5	15707.6	14730.3	14591.3	13824.7	13955.2	13306.6
50°	14330.1	14549.2	14911.4	15694.9	17287.2	17240.8	15762.3	15501.2	14448.1	14713.5	14094.3
52.5°	13007.5	12956.9	13386.6	14667.1	17181.8	18765.7	17472.5	16849.1	15787.6	15585.4	15370.6
55°	9911.5	10029.4	10408.5	11701.7	14919.9	18786.7	19801.9	19292.2	17219.8	16874.4	16625.8
56°	8694.1	8711.0	9069.0	10248.5	13614.1	18117.0	20244.2	19831.4	17931.6	17405.1	17026.0
57.5°	7207.2	7110.3	7295.7	7940.1	11491.1	16701.6	19759.8	20164.1	18765.7	17978.0	17451.4
60°	5673.9	5652.9	5577.0	5695.0	7262.0	12582.0	16448.9	17358.8	18681.4	17438.8	16714.3
62.5°	4633.5	4528.2	4679.8	4848.3	5046.3	7805.3	11558.5	12093.4	14831.4	13921.6	12556.8
65°	3593.1	3542.5	3732.1	4279.7	4397.6	4957.8	6583.8	6996.6	8757.3	8601.5	7573.7
67.5°	2472.6	2481.0	2645.3	3479.3	4077.5	4026.9	4031.1	4246.0	4570.3	3395.1	2957.0
70°	1567.0	1562.8	1651.2	2240.9	3281.4	3315.1	3146.6	3083.4	2923.3	1769.2	1874.5
72.5°	1006.7	977.2	1023.6	1238.4	1697.5	1962.9	2021.9	2059.8	1693.3	1390.0	1508.0
75°	568.7	539.2	522.3	577.1	669.8	775.1	850.9	876.2	981.5	1053.1	1116.3
77.5°	172.7	155.9	189.6	252.7	332.8	446.5	543.4	560.2	661.3	745.6	808.8
80°	75.8	84.2	117.9	168.5	235.9	315.9	383.3	408.6	476.0	539.2	556.0
82.5°	46.3	50.5	80.0	113.7	164.3	223.3	273.8	282.2	349.6	400.2	412.8
85°	16.8	21.1	42.1	67.4	105.3	143.2	143.2	155.9	143.2	143.2	155.9
87.5°	0.0	0.0	4.2	8.4	8.4	12.6	16.8	16.8	21.1	25.3	29.5
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°	10863.4	10863.4	10863.4	10863.4	10863.4	10863.4	10863.4	10863.4	10863.4	10863.4	10863.4
2.5°	10892.9	10871.9	10838.2	10716.0	10703.4	10665.5	10454.9	10421.2	10454.9	10353.8	10362.2
5°	10871.9	10935.1	10682.3	10560.2	10332.7	10168.4	9978.9	9882.0	9709.3	9599.8	9721.9
7.5°	10964.5	10939.3	10623.3	10358.0	10016.8	9599.8	9267.0	9077.4	8774.2	8689.9	8753.1
10°	10930.8	10796.0	10425.4	10075.7	9431.3	9064.8	8525.6	8003.3	7716.9	7569.4	7548.4
12.5°	10884.5	10846.6	10227.4	9625.0	8946.9	8176.0	7417.8	6925.0	6457.4	6255.2	6284.7
15°	10939.3	10619.1	9856.7	9094.3	8192.9	7181.9	6364.7	5728.7	5404.3	5273.8	5273.8
17.5°	10914.0	10509.6	9679.8	8500.4	7358.8	6162.6	5265.3	4882.0	4747.2	4747.2	4785.1
20°	10926.6	10581.2	9321.8	7906.4	6373.2	5189.5	4536.6	4397.6	4456.6	4477.6	4498.7
22.5°	10998.2	10345.3	8972.1	7253.5	5459.1	4439.7	4119.6	4123.8	4229.1	4342.8	4321.8
25°	11086.7	10252.7	8546.7	6604.8	4759.9	4073.3	3972.2	3959.5	4039.6	4098.5	4107.0
27.5°	11010.9	10092.6	8112.8	5796.1	4187.0	3829.0	3807.9	3816.3	3841.6	3959.5	3921.6
30°	11259.4	10138.9	7569.4	5117.9	3871.1	3748.9	3723.6	3711.0	3748.9	3782.6	3753.1
32.5°	11566.9	9974.7	7165.1	4465.0	3715.2	3689.9	3639.4	3622.6	3643.6	3609.9	3626.8
35°	11701.7	9945.2	6638.5	3997.4	3593.1	3572.0	3542.5	3538.3	3542.5	3513.0	3487.8
37.5°	11777.5	10084.2	6036.2	3782.6	3517.2	3538.3	3470.9	3462.5	3386.7	3403.5	3416.2
40°	11908.1	9869.3	5547.6	3576.2	3470.9	3428.8	3369.8	3357.2	3306.6	3277.1	3306.6
42.5°	11718.5	9806.2	5067.4	3487.8	3403.5	3357.2	3315.1	3243.4	3226.6	3201.3	3184.5
45°	11566.9	9443.9	4637.7	3378.2	3323.5	3298.2	3218.2	3142.4	3079.2	3104.4	3066.5
47.5°	11680.6	9317.5	4212.3	3285.6	3214.0	3184.5	3104.4	3045.5	2982.3	2952.8	2944.4
50°	12135.5	9553.4	3854.2	3218.2	3121.3	3104.4	2999.1	2931.7	2872.8	2851.7	2860.1
52.5°	13222.3	10197.9	3609.9	3079.2	3032.8	2957.0	2898.0	2813.8	2775.9	2708.5	2750.6
55°	14599.7	11246.8	3546.7	2948.6	2923.3	2855.9	2775.9	2712.7	2641.1	2586.3	2573.7
56°	15042.0	11748.0	3496.2	2898.0	2855.9	2818.0	2712.7	2674.8	2561.1	2548.4	2540.0
57.5°	15400.1	12190.3	3504.6	2801.2	2759.0	2725.3	2662.2	2569.5	2493.7	2447.3	2468.4
60°	14591.3	11411.0	3344.5	2653.7	2645.3	2582.1	2493.7	2451.5	2358.9	2304.1	2291.5
62.5°	10846.6	7746.4	2712.7	2464.2	2460.0	2392.6	2291.5	2245.1	2228.3	2152.5	2152.5
65°	6246.8	4856.7	2346.2	2308.3	2274.6	2207.2	2106.1	2068.2	2026.1	2000.8	1979.8
67.5°	2666.4	2518.9	2131.4	2127.2	2089.3	2005.0	1903.9	1845.0	1790.2	1739.7	1764.9
70°	1933.4	1962.9	1925.0	1903.9	1857.6	1752.3	1663.8	1592.2	1508.0	1474.3	1499.6
72.5°	1533.3	1596.5	1651.2	1655.4	1600.7	1478.5	1381.6	1284.7	1192.1	1145.7	1166.8
75°	1162.6	1204.7	1259.5	1272.1	1192.1	1107.8	1015.2	914.1	842.5	787.7	796.1
77.5°	838.2	829.8	880.4	871.9	834.0	775.1	690.8	598.1	518.1	467.6	471.8
80°	572.9	585.5	615.0	610.8	564.4	526.5	463.3	387.5	328.6	286.4	278.0
82.5°	400.2	421.2	446.5	425.4	387.5	349.6	303.3	248.5	202.2	168.5	160.1
85°	143.2	164.3	189.6	202.2	214.8	206.4	172.7	139.0	101.1	84.2	80.0
87.5°	29.5	33.7	37.9	37.9	37.9	33.7	29.5	29.5	25.3	12.6	12.6
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)