

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: P530584

Luminaire Tested: **GALN-SA5D-740-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-740-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33030 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

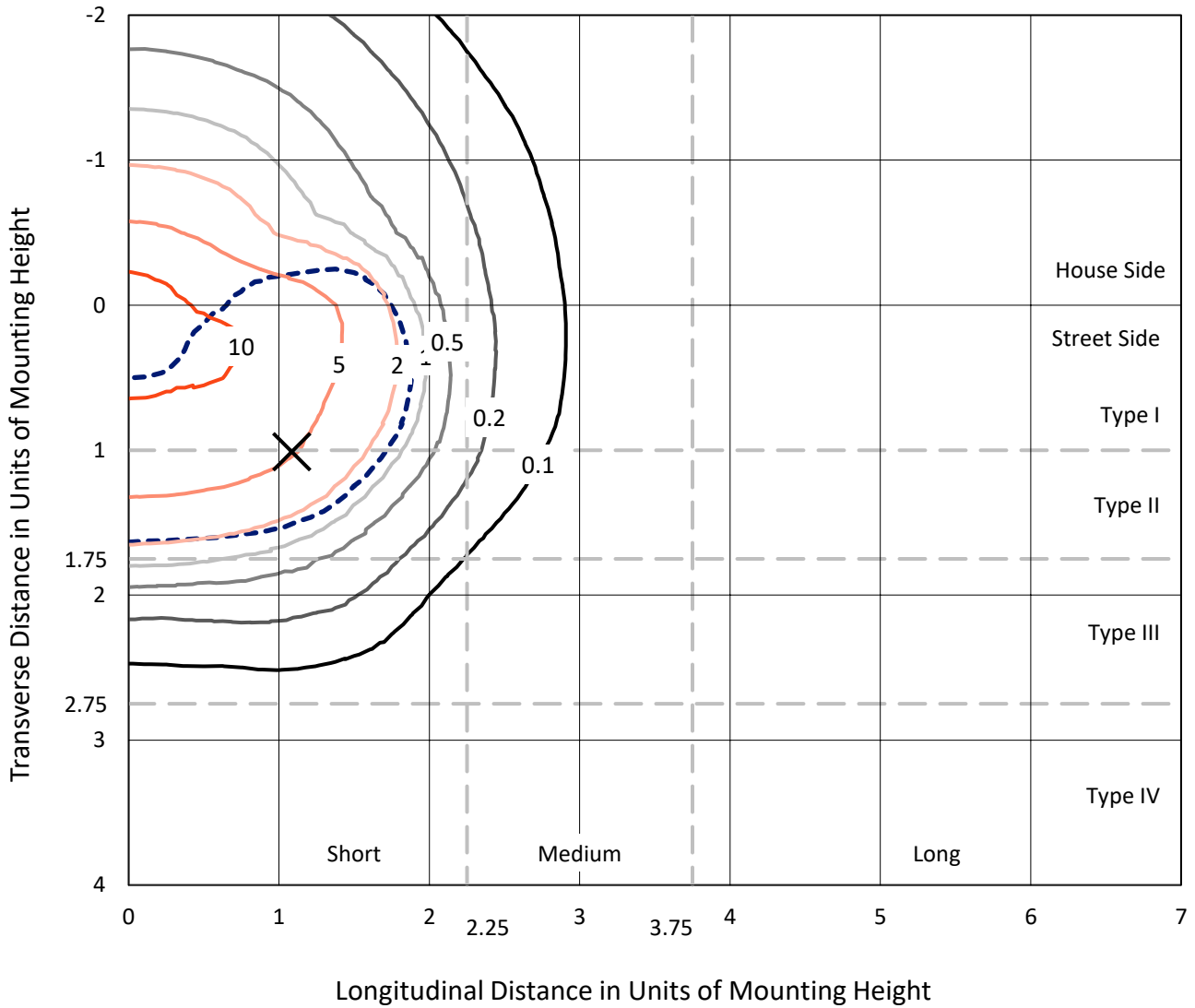
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

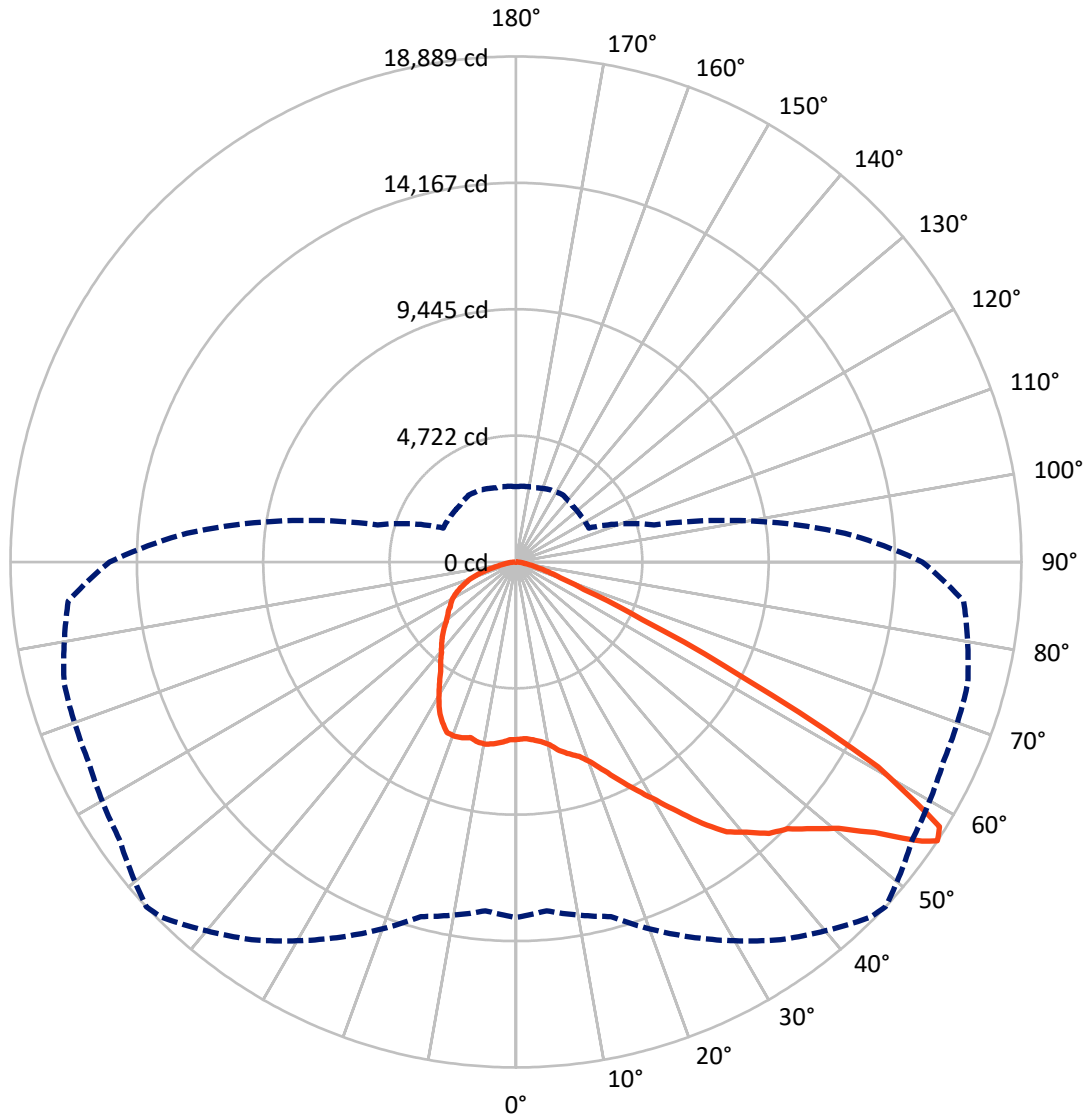
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10466.8	0.0	10466.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	22563.2	0.0	22563.2
	% Fixture	68.3	0.0	68.3
Total	Lumens	33030.0	0.0	33030.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.5	2.0
10°-20°	2039.3	6.2
20°-30°	3604.9	10.9
30°-40°	5414.5	16.4
40°-50°	7430.9	22.5
50°-60°	8852.9	26.8
60°-70°	3788.5	11.5
70°-80°	1072.1	3.2
80°-90°	180.4	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°	33030.0	100.0
0°-180°	33030.0	100.0

Coefficient of Utilization



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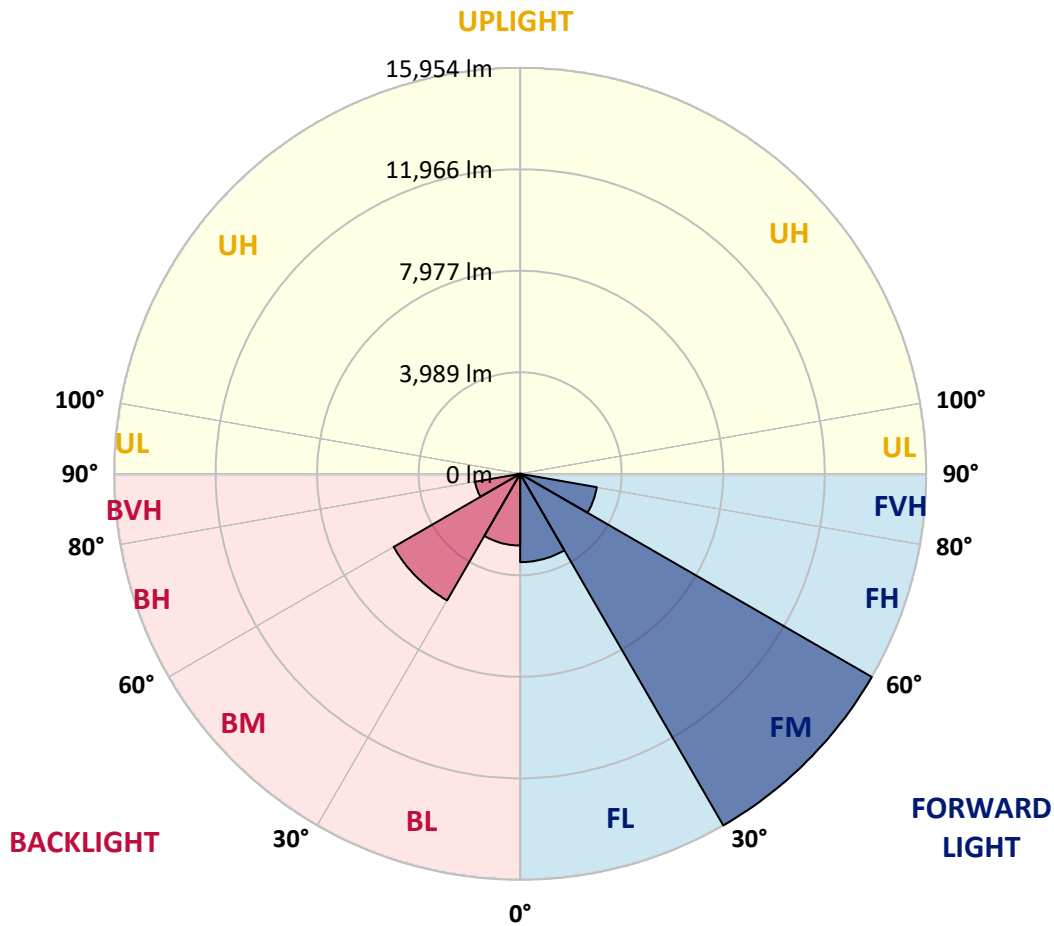
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3472.6	10.5			
FM (30°-60°)	15954.3	48.3			
FH (60°-80°)	3059.8	9.3			G2/5000
FVH (80°-90°)	76.6	0.2			G1/100
BL (0°-30°)	2818.1	8.5	B4/5000		
BM (30°-60°)	5744.0	17.4	B4/8500		
BH (60°-80°)	1800.9	5.5	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°	47°	55°	65°	75°	85°
0°	6634.7	6634.7	6634.7	6634.7	6634.7	6634.7	6634.7	6634.7	6634.7	6634.7	6634.7
2.5°	6609.4	6596.8	6588.4	6655.8	6630.5	6634.7	6609.4	6634.7	6651.6	6613.7	6668.4
5°	6596.8	6634.7	6601.0	6622.1	6676.8	6660.0	6676.8	6727.4	6714.8	6702.1	6685.3
7.5°	6714.8	6719.0	6744.2	6752.7	6769.5	6752.7	6777.9	6824.3	6811.6	6740.0	6748.5
10°	6883.3	6891.7	6895.9	6942.2	6971.7	6975.9	6946.5	6904.3	6900.1	6997.0	6929.6
12.5°	7077.0	7056.0	7106.5	7123.4	7157.1	7195.0	7232.9	7144.4	7199.2	7203.4	7123.4
15°	7359.3	7380.3	7321.4	7321.4	7334.0	7338.2	7443.5	7401.4	7393.0	7346.6	7380.3
17.5°	7780.5	7637.3	7633.1	7574.1	7565.7	7599.4	7637.3	7671.0	7784.7	7692.1	7510.9
20°	8088.0	8121.7	7999.6	7928.0	7940.6	8016.4	7978.5	8130.2	8210.2	8058.6	7881.6
22.5°	8631.5	8517.7	8547.2	8387.1	8399.8	8479.8	8475.6	8631.5	8677.8	8437.7	8180.7
25°	8997.9	8968.5	8993.7	8867.4	8884.2	8947.4	9048.5	9305.5	9229.6	8964.2	8370.3
27.5°	9532.9	9474.0	9452.9	9406.6	9389.7	9558.2	9676.2	9950.0	9895.2	9507.7	8707.3
30°	10080.6	10042.7	10063.7	9874.2	9941.6	10299.6	10333.3	10708.2	10683.0	10000.5	9082.2
32.5°	10459.7	10480.8	10518.7	10413.4	10712.4	10998.9	11112.6	11538.1	11559.2	10847.2	9806.8
35°	11070.5	10998.9	11020.0	11142.1	11281.1	11803.5	11988.8	12271.1	12448.0	11736.1	10501.8
37.5°	11453.8	11529.7	11441.2	11635.0	11997.3	12624.9	12793.4	13084.1	13269.4	12612.3	11449.6
40°	12052.0	11929.9	11993.1	12132.1	12502.8	13320.0	13273.7	13572.7	13631.7	13357.9	12334.3
42.5°	12696.5	12637.6	12549.1	12865.0	13176.8	13770.7	13863.4	13724.4	14023.5	14086.7	13598.0
45°	13467.4	13539.0	13551.7	13560.1	13833.9	14352.1	14225.7	14103.5	14449.0	14908.1	14381.6
47.5°	14183.6	13956.1	14120.4	14347.9	14735.4	14739.6	14887.1	14596.4	14962.9	15371.5	15089.3
50°	14423.7	14314.2	14533.2	14962.9	15561.1	15624.2	15641.1	15228.3	15417.8	15742.2	15333.6
52.5°	14331.0	14293.1	14853.4	15518.9	16395.1	16715.3	16799.5	16289.8	16395.1	16247.7	15872.8
55°	13888.7	14002.4	14566.9	15923.3	17267.1	18257.1	18417.1	17772.6	17102.8	17216.6	16803.8
56°	13282.1	13084.1	13716.0	15464.2	17229.2	18758.4	18889.0	18084.4	17629.4	17482.0	16795.3
57.5°	11268.5	11011.5	11841.4	13914.0	16273.0	18568.8	18665.7	18214.9	17540.9	17241.9	15569.5
60°	6596.8	6723.2	7776.3	9596.1	12553.3	15224.1	15548.4	15877.0	15426.3	14086.7	11588.7
62.5°	3184.7	3104.6	3858.7	5501.6	7649.9	9718.3	9621.4	10543.9	11049.4	10009.0	7317.2
65°	1668.2	1659.7	2106.3	3003.5	4204.1	5105.6	5194.0	5691.1	6386.2	5156.1	3715.4
67.5°	1225.8	1259.5	1482.8	2110.5	2704.4	2759.2	2746.6	2995.1	3062.5	2590.7	2283.2
70°	960.5	977.3	1141.6	1605.0	2013.6	1803.0	1765.0	1794.5	1992.5	2076.8	1975.7
72.5°	695.1	711.9	850.9	1082.6	1259.5	1230.1	1255.3	1419.6	1663.9	1752.4	1647.1
75°	463.4	476.0	551.8	661.4	745.6	804.6	850.9	1040.5	1268.0	1318.5	1268.0
77.5°	320.2	332.8	383.3	467.6	476.0	513.9	530.8	619.2	758.3	821.4	787.7
80°	181.1	181.1	206.4	240.1	294.9	345.4	353.9	425.5	488.7	530.8	539.2
82.5°	84.3	88.5	109.5	147.4	193.8	240.1	248.5	294.9	341.2	383.3	396.0
85°	42.1	46.3	63.2	88.5	118.0	143.2	139.0	143.2	151.7	143.2	147.4
87.5°	12.6	12.6	16.9	21.1	16.9	21.1	21.1	25.3	29.5	33.7	37.9
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°	6634.7	6634.7	6634.7	6634.7	6634.7	6634.7	6634.7	6634.7	6634.7	6634.7	6634.7
2.5°	6672.6	6685.3	6601.0	6681.1	6651.6	6647.4	6706.3	6697.9	6719.0	6710.5	6660.0
5°	6676.8	6647.4	6735.8	6655.8	6693.7	6773.7	6719.0	6845.3	6782.2	6824.3	6731.6
7.5°	6807.4	6815.9	6799.0	6832.7	6815.9	6853.8	6824.3	6853.8	6803.2	6807.4	6891.7
10°	6921.2	6895.9	6925.4	6883.3	6912.7	6900.1	6832.7	6811.6	6828.5	6807.4	6862.2
12.5°	7131.8	7085.5	7064.4	7013.9	6980.2	6853.8	6748.5	6689.5	6769.5	6782.2	6756.9
15°	7346.6	7350.9	7254.0	7140.2	6929.6	6740.0	6765.3	6786.4	6786.4	6820.1	6756.9
17.5°	7481.4	7481.4	7393.0	7165.5	6950.7	6841.1	6815.9	6748.5	6689.5	6681.1	6676.8
20°	7717.3	7645.7	7443.5	7161.3	6942.2	6891.7	6702.1	6542.0	6419.9	6377.8	6373.5
22.5°	7986.9	7805.8	7523.6	7169.7	6929.6	6858.0	6504.1	6264.0	6045.0	5952.3	5964.9
25°	8235.5	7944.8	7569.9	7131.8	6883.3	6537.8	6141.9	5809.1	5581.6	5505.8	5467.9
27.5°	8408.2	8092.3	7569.9	7165.5	6710.5	6179.8	5775.4	5349.9	5151.9	5101.4	5109.8
30°	8639.9	8277.6	7700.5	7093.9	6365.1	5716.4	5232.0	4953.9	4836.0	4793.9	4823.3
32.5°	9183.3	8762.0	7881.6	6921.2	5956.5	5253.0	4861.3	4705.4	4532.7	4448.4	4418.9
35°	9773.1	9221.2	8058.6	6630.5	5497.3	4831.8	4587.4	4444.2	4237.8	4145.1	4162.0
37.5°	10607.1	9811.0	8071.2	6150.3	5000.3	4595.9	4372.6	4149.3	3980.8	3837.6	3795.5
40°	11731.9	10615.6	8041.7	5644.8	4600.1	4317.8	4153.5	3875.5	3686.0	3584.9	3605.9
42.5°	12721.8	11559.2	7919.5	5071.9	4237.8	4128.3	3942.9	3669.1	3483.8	3378.4	3370.0
45°	13555.9	12254.2	7687.9	4583.2	3934.5	3917.6	3702.8	3492.2	3344.7	3247.9	3290.0
47.5°	14326.8	12814.5	7338.2	4094.6	3656.5	3690.2	3483.8	3353.2	3260.5	3172.0	3167.8
50°	14604.8	12806.1	7030.7	3690.2	3433.2	3416.4	3407.9	3268.9	3172.0	3096.2	3129.9
52.5°	15068.2	12949.3	6697.9	3412.1	3231.0	3235.2	3264.7	3163.6	3054.1	3007.7	3049.9
55°	15733.8	12970.4	5964.9	3087.8	3062.5	3092.0	3092.0	3024.6	2931.9	2894.0	2872.9
56°	15190.4	12342.7	5349.9	3003.5	2978.3	2978.3	3058.3	2982.5	2868.7	2839.2	2814.0
57.5°	14010.9	10813.5	4477.9	2902.4	2864.5	2923.5	2965.6	2885.6	2780.3	2738.1	2763.4
60°	9663.5	7317.2	3365.8	2683.4	2683.4	2780.3	2814.0	2696.0	2649.7	2645.5	2611.8
62.5°	5640.6	4263.1	2632.8	2485.4	2493.8	2573.9	2599.1	2531.7	2472.8	2544.4	2578.1
65°	2990.9	2544.4	2257.9	2274.8	2279.0	2342.2	2451.7	2447.5	2443.3	2464.3	2468.5
67.5°	2165.2	2114.7	2051.5	2034.6	2043.1	2089.4	2198.9	2283.2	2279.0	2228.4	2190.5
70°	1929.3	1857.7	1819.8	1824.0	1790.3	1845.1	1933.5	1988.3	1891.4	1832.4	1807.2
72.5°	1605.0	1583.9	1558.6	1562.8	1495.4	1482.8	1381.7	1381.7	1356.4	1339.6	1369.1
75°	1225.8	1217.4	1230.1	1209.0	1137.4	1061.6	1002.6	947.8	863.6	829.9	813.0
77.5°	775.1	800.4	829.9	783.5	754.0	699.3	640.3	585.5	518.1	480.2	480.2
80°	526.6	547.6	568.7	560.3	526.6	476.0	429.7	370.7	324.4	294.9	290.7
82.5°	400.2	417.0	446.5	412.8	379.1	337.0	299.1	257.0	214.8	181.1	181.1
85°	143.2	164.3	181.1	198.0	210.6	214.8	185.4	151.7	122.2	96.9	92.7
87.5°	37.9	42.1	46.3	42.1	42.1	42.1	46.3	42.1	37.9	29.5	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

(END OF REPORT)