

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: P532452

Luminaire Tested: **GALN-SA7D-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45196 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

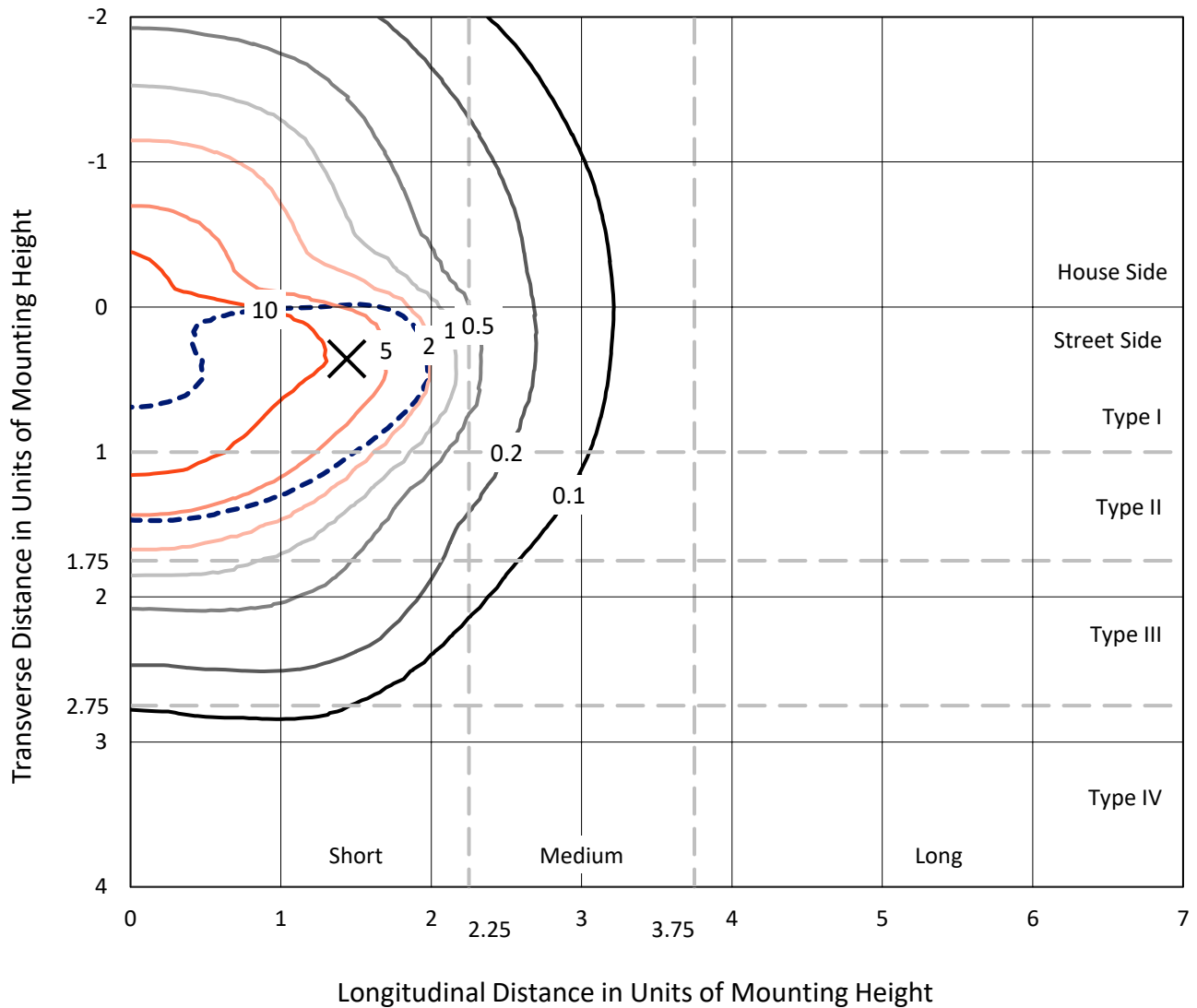
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

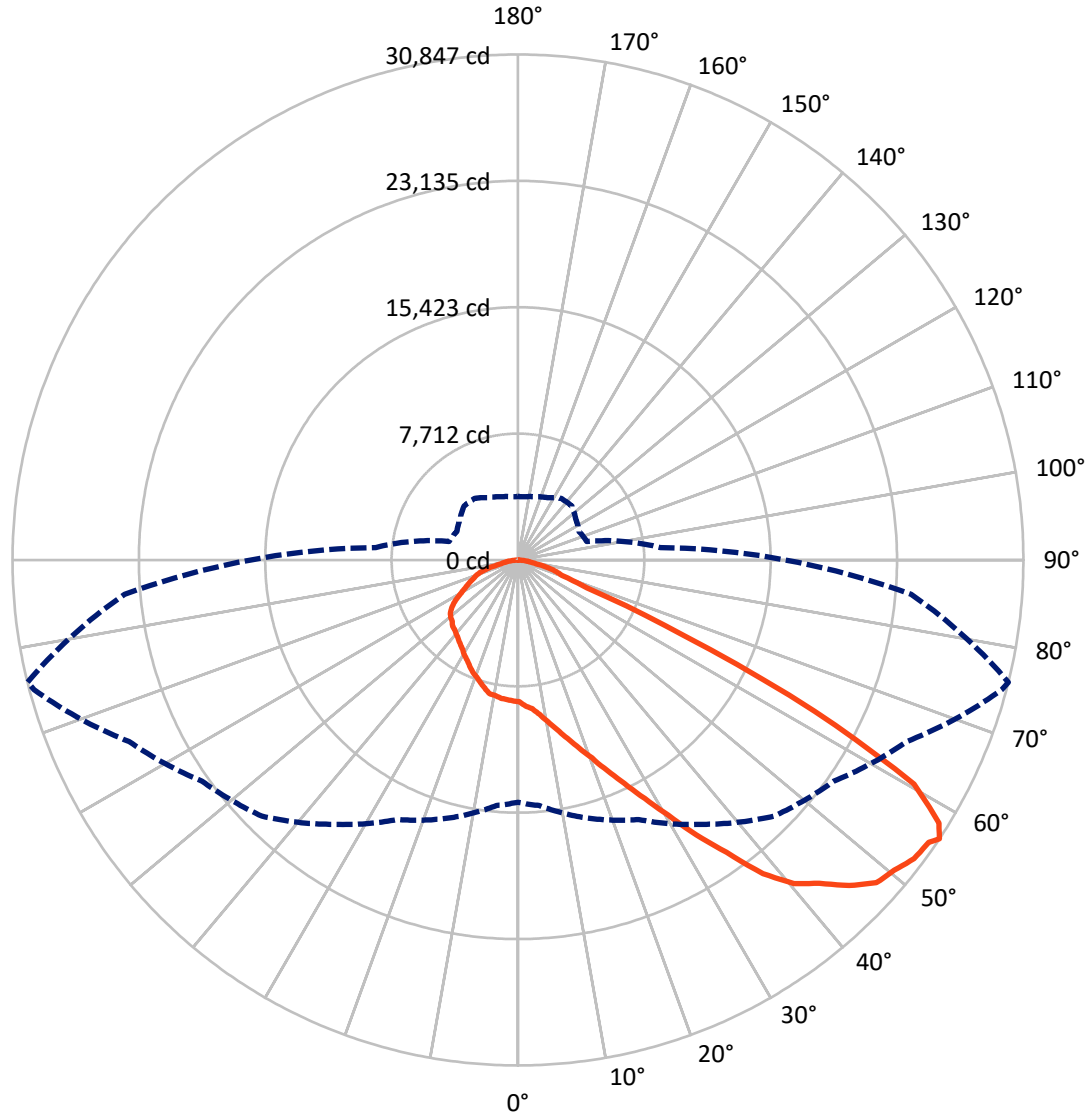
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12151.8	0.0	12151.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	33044.2	0.0	33044.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	45196.0	0.0	45196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	857.6	1.9
10°-20°	2693.9	6.0
20°-30°	4711.4	10.4
30°-40°	7376.7	16.3
40°-50°	10730.9	23.7
50°-60°	11794.0	26.1
60°-70°	5264.3	11.6
70°-80°	1520.5	3.4
80°-90°	246.6	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°	45196.0	100.0
0°-180°	45196.0	100.0

Coefficient of Utilization

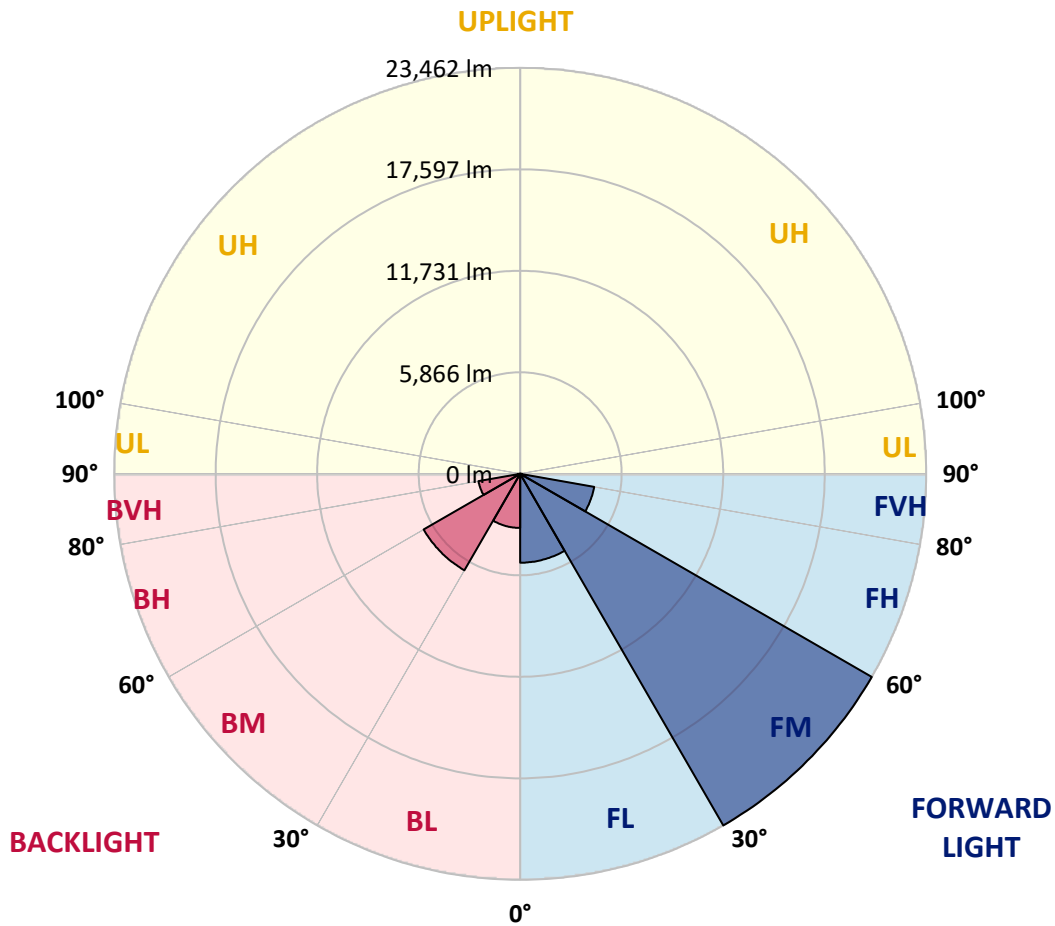


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5136.0	11.4			
FM (30°-60°)	23462.1	51.9			
FH (60°-80°)	4339.9	9.6			G2/5000
FVH (80°-90°)	106.2	0.2			G2/225
BL (0°-30°)	3126.9	6.9	B4/5000		
BM (30°-60°)	6439.5	14.2	B4/8500		
BH (60°-80°)	2445.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	140.5	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°	55°	65°	75°	76°	85°
0°	8647.7	8647.7	8647.7	8647.7	8647.7	8647.7	8647.7	8647.7	8647.7	8647.7	8647.7
2.5°	9526.5	9374.2	9362.5	9321.4	9344.9	9239.4	9128.1	8981.6	8829.3	8923.0	8700.4
5°	10194.4	9989.4	10071.4	9930.8	9948.3	9807.7	9579.2	9409.3	9221.8	9110.5	8952.3
7.5°	10428.8	10446.3	10504.9	10481.5	10364.3	10364.3	10212.0	9913.2	9585.1	9520.6	9257.0
10°	10745.1	10751.0	10686.6	10704.1	10868.2	10792.0	10657.3	10528.4	10106.5	10030.4	9561.7
12.5°	10856.5	10751.0	10856.5	10950.2	11143.5	11249.0	11219.7	11126.0	10674.8	10622.1	9936.6
15°	10874.0	10809.6	10897.5	11108.4	11278.3	11723.6	11946.2	11881.8	11284.2	11290.0	10358.5
17.5°	10792.0	10879.9	10915.1	11096.7	11489.2	11905.2	12549.7	12637.6	12145.4	12069.2	10891.6
20°	10903.3	10838.9	10885.8	11049.8	11571.2	12221.6	13065.3	13645.3	12953.9	12901.2	11442.3
22.5°	11331.0	11243.1	11231.4	11336.9	11711.9	12385.6	13610.1	14653.0	13938.2	13967.5	12127.8
25°	11665.0	11711.9	11670.8	11665.0	11899.3	12631.7	14330.8	15854.1	15274.0	15104.1	12936.4
27.5°	12239.2	12350.5	12268.4	12379.8	12327.0	13000.8	14846.3	17184.0	16715.3	16486.8	13668.7
30°	13036.0	13094.5	13018.4	13018.4	12860.2	13516.4	15315.1	18572.6	18379.2	18068.7	14530.0
32.5°	14084.7	14172.6	14020.2	13932.4	13908.9	14283.9	16158.7	19943.6	20271.6	20008.0	15672.4
35°	15473.2	15420.5	15238.9	15156.9	14840.5	15461.5	17412.5	21519.6	22380.8	21912.1	17055.1
37.5°	16697.7	16615.7	16604.0	16147.0	16223.2	16732.9	18478.8	22714.8	24425.6	24290.8	18514.0
40°	17840.2	17916.4	18039.4	17781.6	17664.5	18226.9	19720.9	23628.8	26013.3	25960.6	19638.9
42.5°	19064.7	18994.4	19211.2	18994.4	18818.7	19615.5	21068.5	24261.5	27407.7	26974.2	20816.5
45°	20840.0	20617.3	20693.5	20711.1	20582.2	20875.1	21625.0	24718.5	28386.2	28339.3	21677.8
47.5°	22322.2	22328.1	22199.2	22099.6	21707.1	22000.0	22246.1	25005.6	29511.1	29434.9	22011.7
50°	22873.0	22796.8	23171.8	23388.6	23412.0	22814.4	22732.4	25163.8	30102.8	29768.9	22345.7
52.5°	20892.7	20963.0	21554.7	22843.7	23587.8	23652.2	23300.7	25491.9	30343.0	30272.7	22615.2
55°	16814.9	17154.7	18127.3	19615.5	21379.0	23318.3	23915.9	25831.7	30471.9	30413.3	23810.4
56°	14781.9	15045.5	16311.1	17477.0	19691.6	22105.5	23529.2	26195.0	30571.5	30846.9	24091.6
57.5°	11899.3	12204.0	13112.1	14436.2	17049.3	19797.1	22462.9	25749.7	30184.8	30290.3	24296.7
60°	7440.7	7470.0	8559.8	9432.8	11272.4	13955.8	17143.0	22404.3	27935.0	27782.7	21824.2
62.5°	4880.4	4886.3	5876.4	6591.2	7429.0	8044.2	10089.0	14858.1	20611.5	20342.0	15537.7
65°	3427.4	3503.6	4271.1	5226.1	5565.9	5243.7	5179.2	7833.3	11512.7	11126.0	8348.9
67.5°	2507.6	2513.5	3193.1	4218.4	4710.5	3989.9	3239.9	3825.8	4558.2	4546.5	3866.8
70°	1658.1	1728.4	2249.8	3152.1	3714.5	3204.8	2648.2	2736.1	2900.1	2900.1	2876.7
72.5°	966.7	1031.2	1376.8	1997.9	2085.8	2003.7	2097.5	2343.5	2449.0	2443.1	2413.8
75°	550.7	580.0	656.2	832.0	1037.0	1224.5	1540.9	1775.2	1880.7	1945.1	1869.0
77.5°	322.2	339.8	386.7	474.6	539.0	662.1	837.8	1001.9	1142.5	1124.9	1136.6
80°	169.9	169.9	216.8	281.2	375.0	468.7	556.6	650.3	726.5	744.1	761.7
82.5°	99.6	105.5	140.6	205.1	269.5	334.0	427.7	492.1	562.5	568.3	580.0
85°	52.7	58.6	87.9	134.8	181.6	205.1	210.9	199.2	216.8	205.1	234.4
87.5°	17.6	17.6	29.3	23.4	23.4	29.3	35.2	35.2	46.9	46.9	46.9
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°	8647.7	8647.7	8647.7	8647.7	8647.7	8647.7	8647.7	8647.7	8647.7	8647.7	8647.7
2.5°	8694.5	8694.5	8594.9	8407.5	8378.2	8302.0	8231.7	8225.8	8173.1	8126.2	8102.8
5°	8858.6	8677.0	8530.5	8360.6	8161.4	8067.6	7962.2	7845.0	7798.1	7845.0	7839.2
7.5°	9046.1	8893.7	8454.3	8138.0	7909.5	7815.7	7698.5	7575.5	7587.2	7587.2	7505.2
10°	9227.7	9022.6	8319.6	7915.3	7581.4	7511.1	7446.6	7493.5	7552.1	7563.8	7511.1
12.5°	9532.4	9069.5	8255.1	7692.7	7481.8	7329.4	7370.4	7499.3	7622.4	7587.2	7628.2
15°	9760.9	9110.5	7962.2	7464.2	7200.5	7270.8	7417.3	7505.2	7710.3	7686.8	7727.8
17.5°	9983.5	9134.0	7675.1	7159.5	7048.2	7241.5	7352.9	7604.8	7669.2	7809.9	7862.6
20°	10440.5	9180.8	7382.2	6972.0	6936.9	7159.5	7352.9	7470.0	7610.7	7733.7	7733.7
22.5°	10674.8	9157.4	7188.8	6726.0	6837.3	6977.9	7153.7	7352.9	7352.9	7470.0	7475.9
25°	10967.8	9063.7	6884.2	6608.8	6690.8	6825.6	7024.8	6954.5	7030.6	7030.6	7124.4
27.5°	11301.7	8864.5	6620.5	6397.9	6561.9	6708.4	6737.7	6690.8	6602.9	6591.2	6556.1
30°	11571.2	8618.4	6427.2	6327.6	6462.3	6544.3	6450.6	6351.0	6198.7	6187.0	6104.9
32.5°	11940.4	8313.7	6187.0	6151.8	6304.1	6310.0	6280.7	6128.4	5905.7	5812.0	5718.2
35°	12561.4	8138.0	6005.3	6058.1	6104.9	6087.4	6034.6	5870.6	5647.9	5606.9	5571.8
37.5°	13018.4	8009.1	5817.8	5882.3	5923.3	5946.7	5788.6	5606.9	5612.8	5530.8	5507.3
40°	13534.0	7927.0	5665.5	5694.8	5700.7	5776.8	5583.5	5495.6	5536.6	5483.9	5519.0
42.5°	14196.0	7950.5	5507.3	5483.9	5595.2	5565.9	5472.2	5355.0	5378.4	5220.2	5243.7
45°	14547.5	8108.7	5413.6	5308.1	5431.2	5425.3	5302.3	5190.9	5050.3	4745.7	4757.4
47.5°	14781.9	8149.7	5190.9	5120.6	5249.5	5325.7	5185.1	4927.3	4728.1	4511.3	4458.6
50°	15022.1	8225.8	5085.5	4939.0	4991.7	5173.4	4997.6	4751.5	4558.2	4364.8	4394.1
52.5°	15233.0	8372.3	4880.4	4663.7	4757.4	4956.6	4862.9	4564.1	4353.1	4194.9	4148.1
55°	16170.4	8700.4	4534.8	4253.5	4476.2	4728.1	4675.4	4312.1	4083.6	4001.6	3989.9
56°	16316.9	8712.1	4353.1	4112.9	4318.0	4651.9	4587.5	4200.8	3995.7	3866.8	3872.7
57.5°	16340.4	8571.5	4095.3	3984.0	4159.8	4540.6	4458.6	4112.9	3831.7	3714.5	3679.4
60°	14377.6	6690.8	3773.1	3702.8	3907.9	4200.8	4171.5	3872.7	3556.3	3421.6	3486.0
62.5°	9801.9	4903.9	3521.2	3509.5	3614.9	3902.0	3825.8	3556.3	3292.7	3204.8	3163.8
65°	5706.5	3720.4	3275.1	3228.2	3316.1	3468.4	3521.2	3239.9	2964.6	2906.0	2888.4
67.5°	3368.8	3075.9	2958.7	2882.6	2853.3	2947.0	2988.0	2824.0	2548.6	2466.6	2536.9
70°	2818.1	2736.1	2741.9	2613.1	2542.7	2478.3	2443.1	2296.7	2068.2	1962.7	1933.4
72.5°	2431.4	2396.3	2372.8	2255.7	2191.2	2044.7	1892.4	1745.9	1576.0	1488.1	1494.0
75°	1857.3	1845.5	1857.3	1798.7	1687.4	1570.2	1429.6	1242.1	1113.2	1001.9	1025.3
77.5°	1107.3	1142.5	1160.1	1136.6	1089.7	984.3	896.4	773.4	650.3	562.5	550.7
80°	761.7	790.9	820.2	790.9	744.1	667.9	574.2	480.4	392.5	345.7	334.0
82.5°	580.0	609.3	626.9	597.6	539.0	457.0	392.5	328.1	257.8	210.9	199.2
85°	210.9	240.2	234.4	281.2	304.7	292.9	251.9	193.3	146.5	105.5	99.6
87.5°	58.6	52.7	58.6	58.6	58.6	52.7	46.9	46.9	46.9	29.3	23.4
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)