

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: P650902

Luminaire Tested: **GALN-SA5C-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29556.1 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

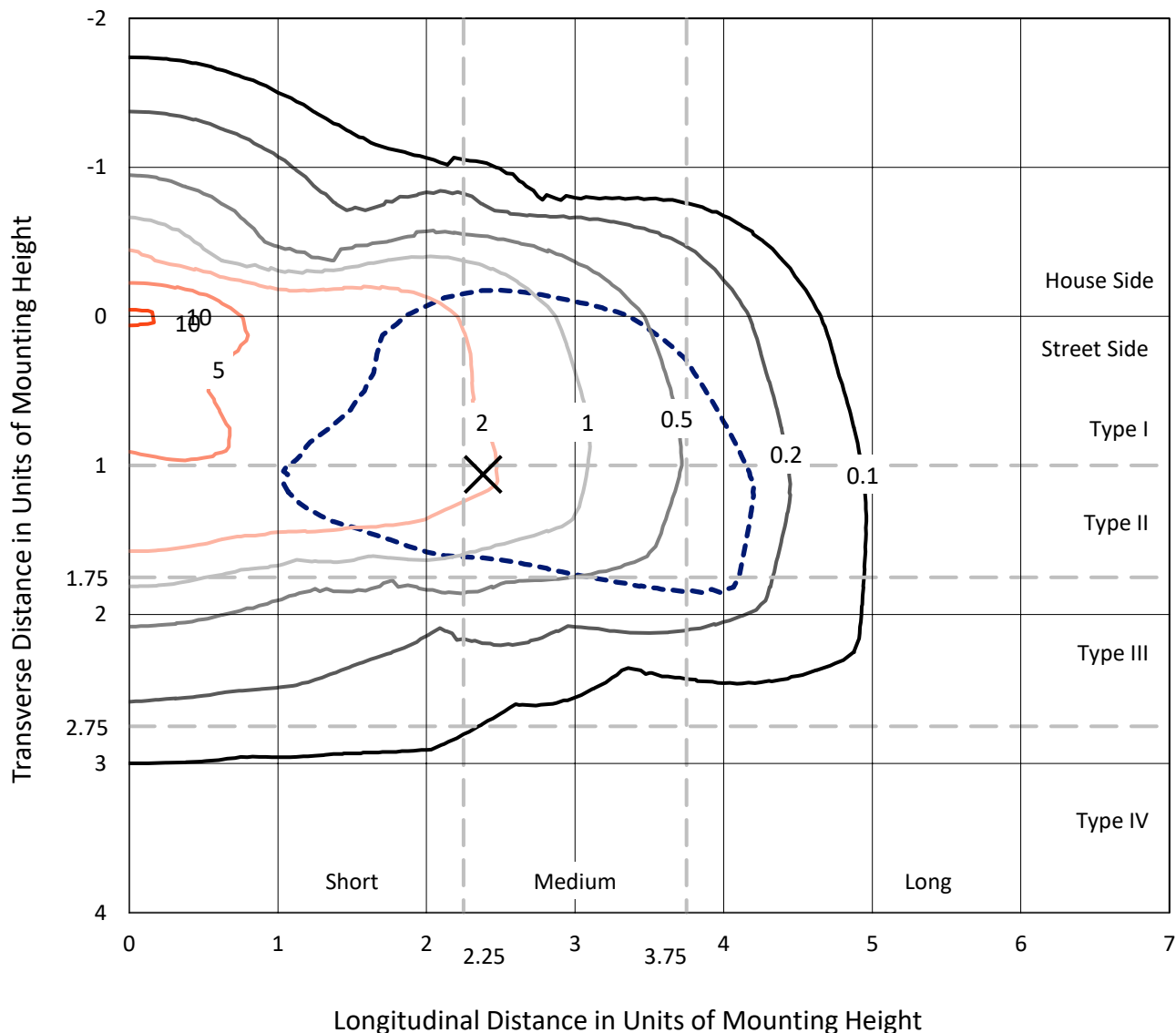
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

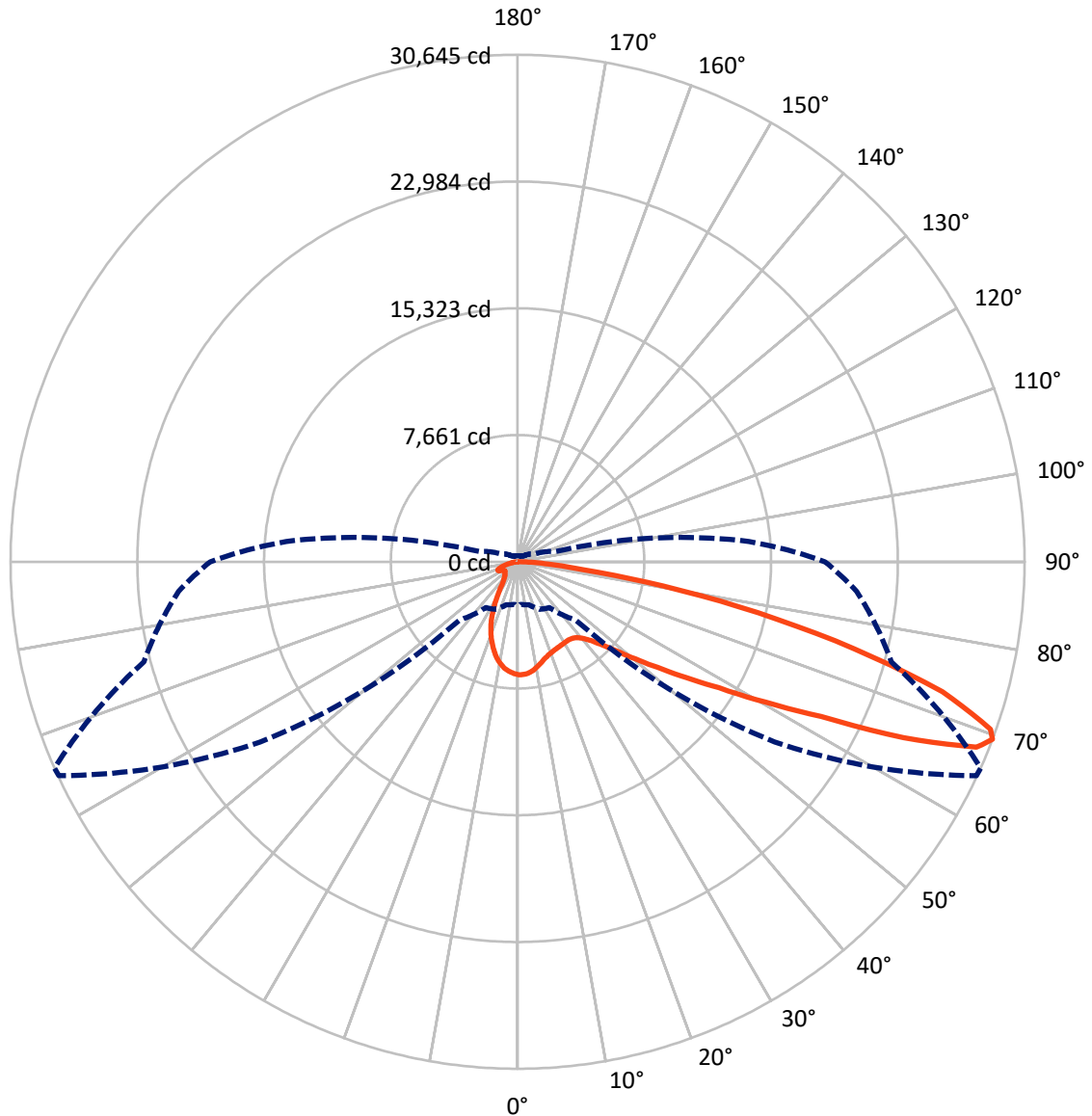
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5558.4	0.0	5558.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	23997.7	0.0	23997.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	29556.1	0.0	29556.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.7	2.0
10°-20°	1405.8	4.8
20°-30°	1913.9	6.5
30°-40°	2571.8	8.7
40°-50°	3840.2	13.0
50°-60°	6108.4	20.7
60°-70°	7513.0	25.4
70°-80°	4888.3	16.5
80°-90°	721.9	2.4
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°	29556.1	100.0
0°-180°	29556.1	100.0

Coefficient of Utilization

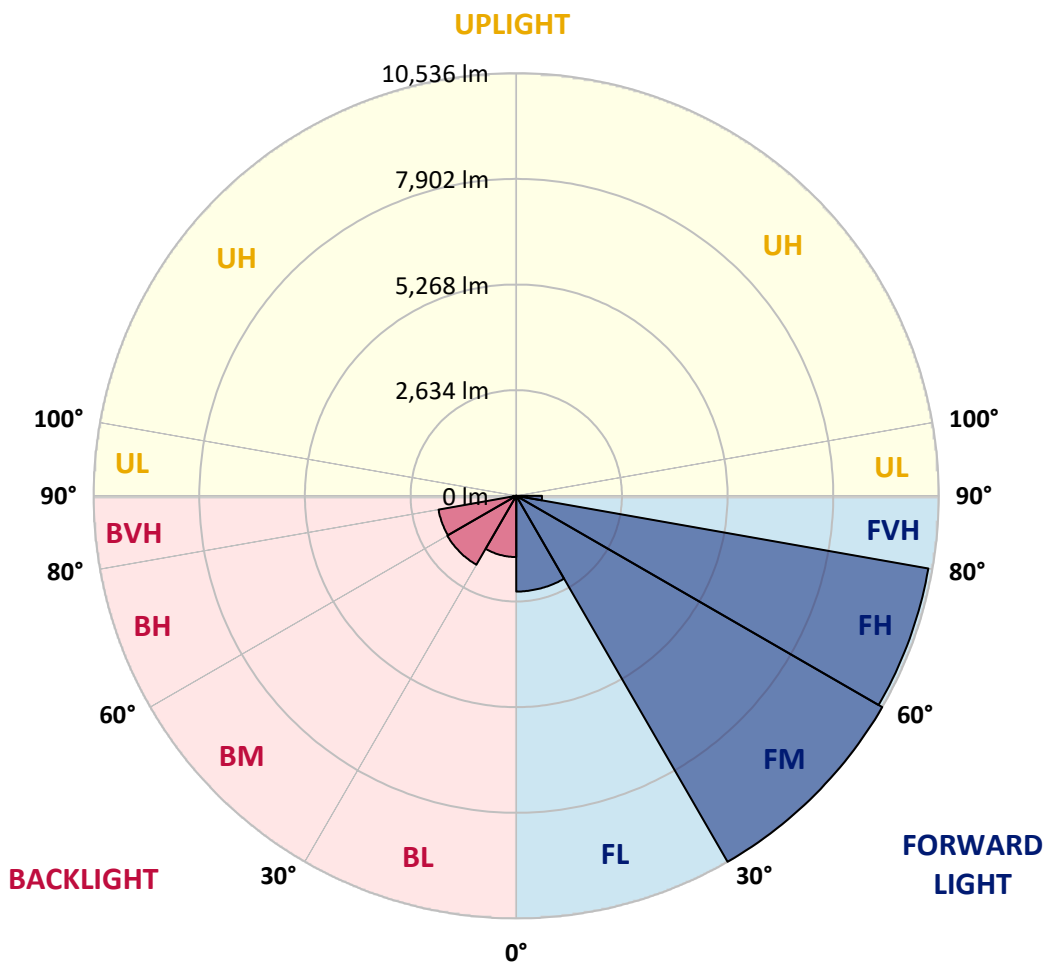


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2386.6	8.1			
FM (30°-60°)	10535.9	35.6			
FH (60°-80°)	10433.5	35.3			G4/12000
FVH (80°-90°)	641.8	2.2			G4/750
BL (0°-30°)	1525.8	5.2	B3/2500		
BM (30°-60°)	1984.6	6.7	B2/2500		
BH (60°-80°)	1967.9	6.7	B3/2500		G3/2500
BVH (80°-90°)	80.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6825.3	6825.3	6825.3	6825.3	6825.3	6825.3	6825.3	6825.3	6825.3	6825.3	6825.3
2.5°	6586.4	6612.5	6642.0	6674.8	6736.9	6771.3	6795.9	6823.7	6827.0	6841.7	6830.3
5°	6100.3	6131.3	6175.5	6237.7	6331.0	6476.7	6627.2	6750.0	6764.8	6833.5	6853.1
7.5°	5694.3	5712.3	5748.3	5848.1	5980.8	6142.8	6362.1	6610.9	6646.9	6810.6	6867.9
10°	5363.7	5381.7	5424.3	5527.4	5658.3	5861.3	6101.9	6429.2	6458.7	6740.2	6871.1
12.5°	5116.6	5132.9	5178.7	5280.2	5430.8	5620.7	5885.8	6232.8	6275.4	6646.9	6840.0
15°	4928.3	4959.4	4997.1	5080.6	5239.3	5422.6	5679.6	6052.8	6087.2	6548.7	6818.7
17.5°	4848.1	4862.8	4889.1	4965.9	5082.2	5262.2	5520.8	5912.0	5952.9	6480.0	6813.9
20°	4851.4	4866.1	4871.0	4913.5	4997.1	5152.6	5407.9	5800.7	5849.8	6419.4	6822.0
22.5°	4962.7	4964.3	4946.3	4931.6	4964.3	5093.6	5327.7	5717.2	5774.6	6393.2	6828.6
25°	5134.6	5164.0	5137.8	5069.0	5008.5	5070.7	5296.6	5671.4	5725.4	6355.6	6820.4
27.5°	5412.8	5417.7	5396.4	5303.1	5146.0	5100.2	5283.5	5637.1	5682.9	6327.8	6779.5
30°	5786.0	5771.3	5751.6	5648.5	5401.3	5213.1	5311.3	5605.9	5653.4	6286.8	6730.4
32.5°	6164.1	6209.9	6191.9	6070.8	5750.0	5432.4	5401.3	5602.7	5641.9	6255.7	6676.4
35°	6565.1	6586.4	6671.5	6609.3	6280.3	5787.6	5569.9	5653.4	5684.5	6257.4	6638.8
37.5°	6879.4	6936.7	7136.3	7190.3	6881.0	6257.4	5843.3	5797.4	5810.6	6337.6	6653.5
40°	7259.1	7357.2	7614.2	7835.2	7632.2	6867.9	6308.1	6064.2	6080.6	6530.7	6750.0
42.5°	7740.3	7809.0	8154.4	8453.9	8421.2	7674.8	6871.1	6501.3	6509.4	6915.4	7020.1
45°	8303.4	8401.5	8789.5	9239.6	9316.5	8588.1	7684.6	7162.5	7157.6	7512.7	7524.3
47.5°	9023.5	9084.1	9468.7	9959.7	10270.7	9735.5	8671.6	8111.9	8059.5	8383.5	8290.2
50°	9686.4	9781.3	10072.7	10609.6	11383.7	11079.2	9969.6	9342.7	9219.9	9522.7	9365.6
52.5°	9964.7	10064.5	10310.0	10976.1	12338.0	12817.5	11617.8	10810.9	10606.3	10838.7	10781.4
55°	9481.8	9611.1	9840.3	10650.4	12757.0	14822.5	13840.5	12508.2	12359.3	12259.4	12275.7
57.5°	8183.9	8306.6	8616.0	9509.6	12256.1	16277.6	17014.2	14690.0	14370.8	13910.9	13989.4
60°	6229.5	6306.5	6466.9	7457.1	10771.6	16655.8	20618.4	17448.0	17245.0	15555.8	15611.5
62.5°	4424.2	4511.0	4622.2	5116.6	7886.0	15590.2	23440.2	21299.3	20574.2	17259.8	17205.7
65°	3592.7	3533.8	3668.0	3898.8	4627.2	12082.6	24075.2	26645.0	25646.5	19503.7	18754.1
67.5°	2954.3	2892.2	3024.7	3435.6	3519.1	7013.5	21787.0	30114.9	29915.2	21944.1	20327.1
69°	2615.6	2582.8	2699.0	3167.1	3378.3	4980.7	18979.9	30597.8	30645.2	23382.9	20569.3
70°	2357.0	2370.0	2483.0	3031.3	3314.5	4106.7	16222.0	29931.6	30334.2	24101.4	20307.4
72.5°	1735.0	1762.8	1919.9	2510.8	3253.9	3484.7	9653.7	26144.1	26856.1	24144.0	18577.4
75°	1212.8	1199.8	1338.9	1890.5	3073.9	3453.6	5669.8	20219.0	21025.9	20868.8	15609.9
77.5°	793.8	815.1	926.4	1335.6	2586.1	3427.4	3695.9	14344.6	14868.4	13956.7	9233.0
80°	559.8	558.2	620.3	911.6	1918.3	3293.2	3026.4	9041.5	8909.0	5484.8	2738.3
82.5°	320.8	343.7	415.7	641.6	1283.2	2898.8	2784.1	4324.3	3947.9	1563.1	924.8
85°	178.4	186.6	247.2	388.0	749.7	2183.5	2430.6	1967.4	1856.1	653.0	397.7
87.5°	57.3	62.2	103.1	196.4	340.4	1031.2	1376.5	908.4	838.1	235.7	160.4
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°	6825.3	6825.3	6825.3	6825.3	6825.3	6825.3	6825.3	6825.3	6825.3	6825.3	6825.3
2.5°	6835.1	6854.8	6802.4	6751.6	6705.9	6642.0	6584.7	6537.3	6504.5	6499.6	6483.3
5°	6858.1	6859.7	6759.9	6625.7	6494.7	6350.6	6201.7	6095.3	5995.5	5939.8	5912.0
7.5°	6874.4	6859.7	6679.6	6462.0	6209.9	5948.1	5686.2	5476.6	5314.6	5250.8	5275.3
10°	6867.9	6822.0	6558.5	6209.9	5843.3	5452.0	5075.6	4781.0	4511.0	4371.8	4375.1
12.5°	6831.9	6756.6	6378.5	5926.8	5388.2	4864.5	4288.3	3890.6	3578.0	3393.0	3335.7
15°	6800.7	6669.8	6167.3	5542.1	4872.7	4124.7	3422.4	2931.5	2669.6	2523.9	2522.2
17.5°	6768.0	6586.4	5936.5	5134.6	4280.2	3317.7	2581.2	2206.4	2083.6	2098.4	2073.8
20°	6733.6	6488.1	5695.9	4681.2	3558.4	2474.8	1933.0	1780.8	1815.2	1882.2	1892.1
22.5°	6694.4	6383.4	5437.3	4182.0	2798.8	1862.6	1568.0	1545.1	1633.5	1738.3	1753.0
25°	6633.8	6252.5	5111.6	3659.8	2158.9	1500.9	1373.3	1389.6	1476.4	1564.8	1574.6
27.5°	6548.7	6090.4	4782.6	3008.3	1622.0	1288.2	1255.4	1276.6	1319.3	1373.3	1386.3
30°	6434.2	5907.1	4404.6	2445.3	1299.6	1181.8	1168.7	1180.1	1204.6	1227.6	1234.1
32.5°	6319.5	5730.3	4023.2	1872.5	1158.8	1111.4	1098.3	1098.3	1098.3	1101.5	1103.2
35°	6213.1	5563.4	3613.9	1458.4	1085.1	1055.7	1037.7	1018.0	1014.8	1003.3	1003.3
37.5°	6154.3	5411.2	3178.6	1221.0	1031.2	1009.9	985.3	952.6	934.6	936.2	932.9
40°	6165.7	5311.3	2782.5	1086.8	987.0	964.0	926.4	888.8	877.3	877.3	874.1
42.5°	6295.1	5278.6	2402.7	1016.4	944.4	918.2	870.8	836.4	829.8	828.2	831.5
45°	6592.9	5358.8	2062.3	970.6	908.4	869.1	821.7	790.5	784.0	784.0	782.4
47.5°	7174.0	5619.1	1818.4	941.2	882.2	831.5	782.4	751.3	739.8	736.5	736.5
50°	8077.5	6183.7	1636.8	914.9	849.5	797.1	746.4	710.4	692.3	690.7	689.1
52.5°	9332.8	7064.3	1566.4	895.3	813.5	761.1	705.4	671.0	648.2	643.3	640.0
55°	10801.0	8293.5	1663.0	880.6	775.8	720.1	662.9	626.9	605.6	595.8	594.2
57.5°	12501.6	9769.9	2029.6	860.9	741.4	676.0	620.3	584.3	561.5	549.9	546.6
60°	14028.7	11287.1	2669.6	849.5	712.0	628.5	571.2	538.5	517.2	505.8	504.1
62.5°	15706.4	12734.1	3434.0	880.6	698.9	582.7	525.4	495.9	477.9	466.5	466.5
65°	17498.7	14182.6	3939.7	985.3	718.6	546.6	476.3	451.8	435.4	427.2	425.5
67.5°	18706.6	14683.4	3245.7	1093.4	767.7	507.4	428.8	409.2	399.4	391.1	391.1
69°	18575.7	14050.0	2394.6	1121.2	782.4	487.8	402.7	388.0	374.8	371.6	368.3
70°	18161.6	13328.2	2006.7	1103.2	770.9	469.8	386.3	368.3	356.8	353.6	351.9
72.5°	16176.2	11558.9	1494.4	959.2	656.3	407.5	342.1	325.7	315.9	311.0	311.0
75°	13439.5	9447.5	1167.1	762.7	513.9	343.7	293.0	279.9	271.7	268.4	266.8
77.5°	7532.4	5275.3	838.1	597.4	389.6	278.3	245.5	234.1	225.9	222.6	222.6
80°	2098.4	1507.5	492.7	394.4	265.2	211.2	194.8	186.6	175.1	166.9	171.9
82.5°	790.5	653.0	281.5	237.3	168.6	140.8	135.8	129.3	124.4	112.9	112.9
85°	384.7	317.6	180.1	126.1	93.3	73.7	70.4	67.1	63.8	55.7	57.3
87.5°	132.5	140.8	78.5	45.8	27.8	18.0	14.7	8.2	8.2	8.2	8.2
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)