

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: P454435

Luminaire Tested: **GALN-SA5C-740-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454435
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-SA5C-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA 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: 34463 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

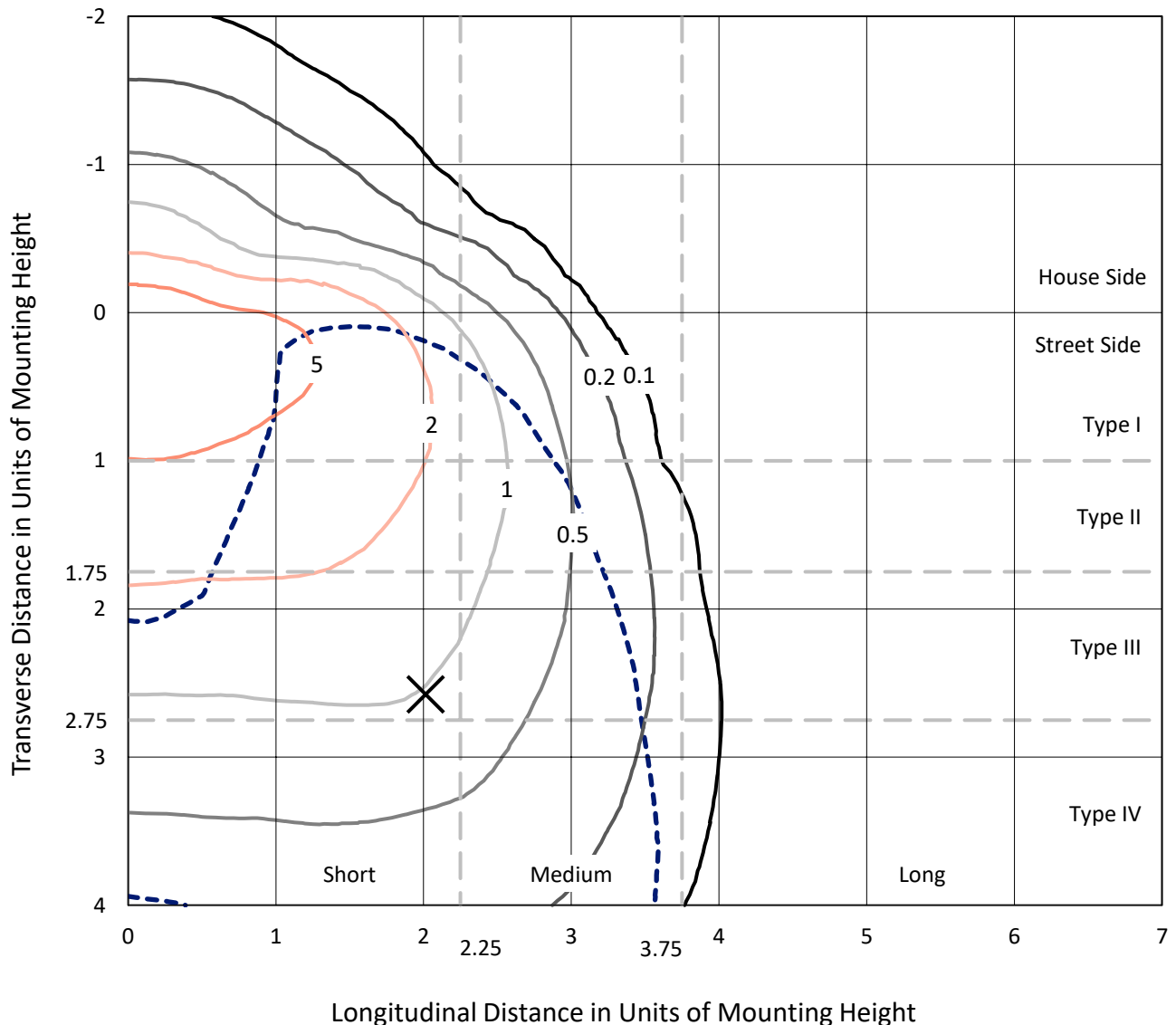
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

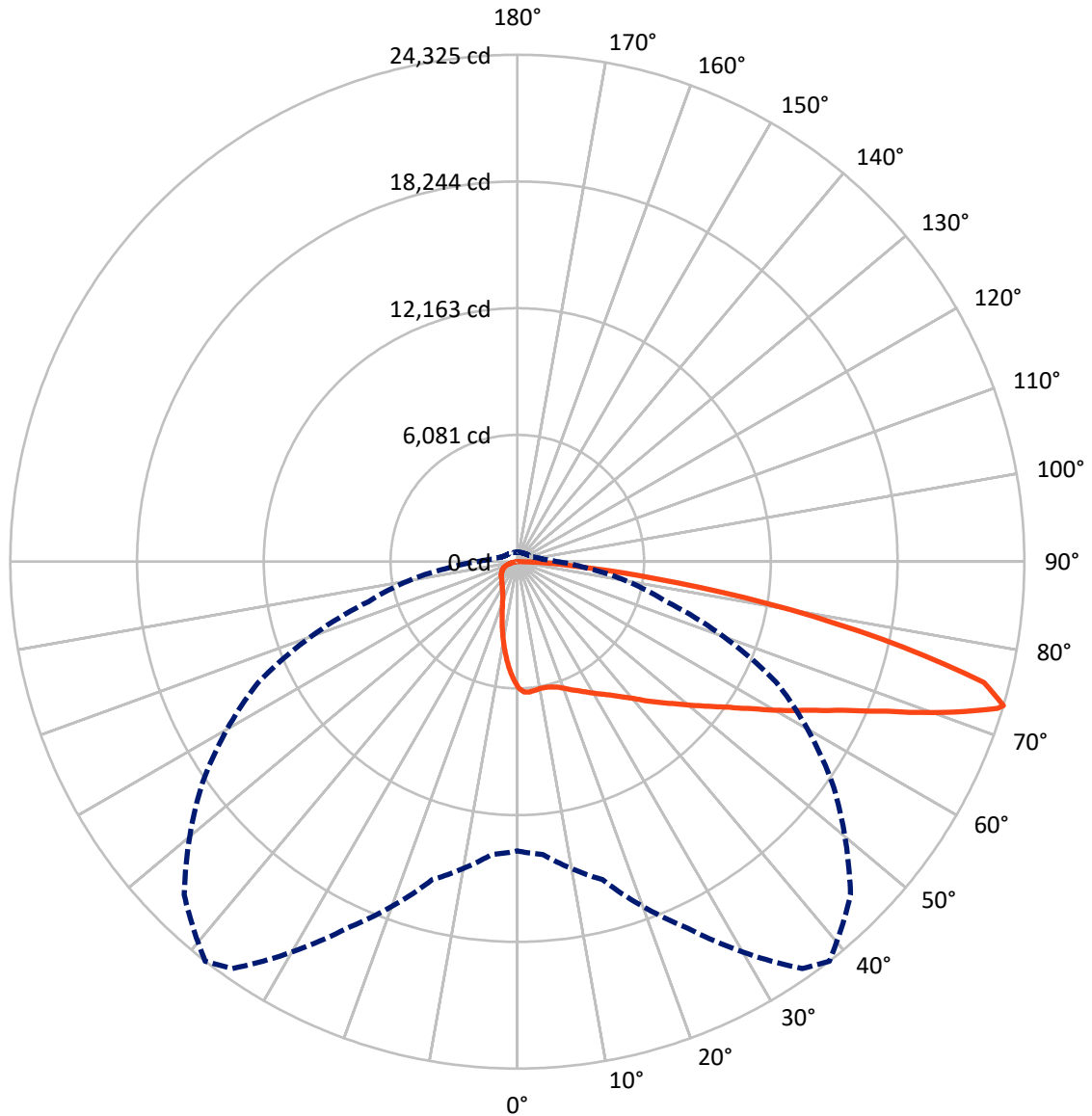
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	4632.8	0.0	4632.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	29830.1	0.0	29830.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	34463.0	0.0	34463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.5	1.5
10°-20°	1355.2	3.9
20°-30°	2110.4	6.1
30°-40°	3095.4	9.0
40°-50°	4591.7	13.3
50°-60°	6505.5	18.9
60°-70°	8252.5	23.9
70°-80°	6869.6	19.9
80°-90°	1154.2	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°	34463.0	100.0
0°-180°	34463.0	100.0

Coefficient of Utilization



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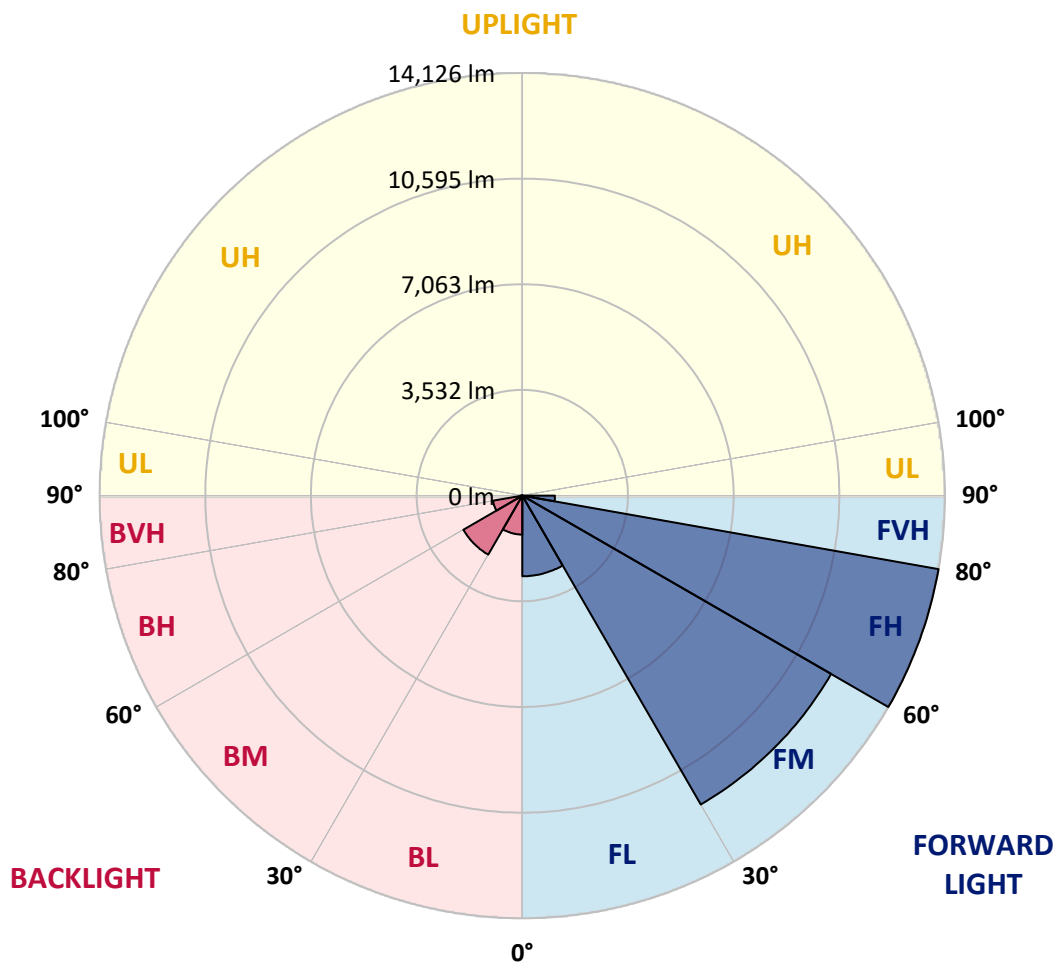
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2694.1	7.8			
FM	(30°-60°)	11918.2	34.6			
FH	(60°-80°)	14126.2	41.0			G5
FVH	(80°-90°)	1091.6	3.2			G5
BL	(0°-30°)	1300.0	3.8	B3/2500		
BM	(30°-60°)	2274.4	6.6	B2/2500		
BH	(60°-80°)	995.8	2.9	B2/1000		G2/1000
BVH	(80°-90°)	62.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6054.6	6054.6	6054.6	6054.6	6054.6	6054.6	6054.6	6054.6	6054.6	6054.6	6054.6
2.5°	6297.8	6329.0	6313.4	6292.0	6278.4	6264.8	6245.3	6188.9	6144.1	6095.4	6019.5
5°	6344.5	6364.0	6350.4	6323.1	6292.0	6278.4	6241.4	6167.4	6095.4	6013.7	5900.8
7.5°	6317.3	6325.1	6309.5	6276.4	6249.2	6223.9	6181.1	6099.3	6011.7	5912.5	5764.6
10°	6220.0	6249.2	6249.2	6221.9	6194.7	6181.1	6138.3	6060.4	5980.6	5867.7	5692.6
12.5°	6140.2	6171.3	6196.6	6188.9	6186.9	6186.9	6153.8	6095.4	6002.0	5895.0	5686.7
15°	6085.7	6122.7	6177.2	6208.3	6227.8	6233.6	6220.0	6169.4	6074.0	5949.5	5710.1
17.5°	6074.0	6118.8	6218.0	6286.2	6336.8	6334.8	6330.9	6260.9	6155.8	6027.3	5739.3
20°	6126.6	6185.0	6323.1	6430.2	6504.1	6490.5	6469.1	6377.6	6255.0	6111.0	5766.5
22.5°	6284.2	6344.5	6496.3	6613.1	6685.1	6685.1	6620.9	6500.2	6369.8	6208.3	5803.5
25°	6510.0	6576.1	6737.7	6856.4	6889.5	6864.2	6800.0	6654.0	6504.1	6348.4	5881.4
27.5°	6786.3	6866.1	7016.0	7115.2	7105.5	7086.0	7019.9	6833.0	6683.2	6541.1	6013.7
30°	7130.8	7189.2	7344.9	7368.2	7333.2	7329.3	7235.9	7049.1	6908.9	6800.0	6202.5
32.5°	7455.8	7508.4	7632.9	7642.6	7580.4	7588.2	7500.6	7329.3	7249.5	7210.6	6519.7
35°	7800.3	7827.5	7934.6	7922.9	7882.0	7876.2	7841.2	7677.7	7703.0	7773.0	6969.3
37.5°	8088.3	8142.8	8203.1	8212.9	8210.9	8230.4	8253.7	8175.9	8321.9	8541.8	7559.0
40°	8353.0	8399.7	8489.2	8520.4	8596.3	8635.2	8715.0	8716.9	9053.6	9415.6	8284.9
42.5°	8532.1	8611.8	8779.2	8835.7	9020.5	9137.3	9256.0	9382.5	9871.0	10336.2	9141.2
45°	8687.7	8792.8	9071.1	9246.3	9497.4	9639.4	9890.5	10155.2	10857.7	11466.9	10011.1
47.5°	8923.2	9016.7	9335.8	9645.3	10024.8	10188.3	10563.9	10958.9	11877.5	12545.1	10844.1
50°	9250.2	9306.6	9631.6	10135.7	10620.3	10830.5	11326.8	11897.0	12967.4	13609.6	11575.9
52.5°	9668.6	9692.0	9950.8	10622.2	11260.6	11521.4	12179.2	12844.8	13921.0	14534.1	12155.8
55°	10163.0	10124.0	10326.4	11138.0	11992.4	12332.9	13039.4	13804.3	14993.4	15281.4	12578.2
57.5°	10651.4	10591.1	10752.6	11764.7	12895.4	13306.0	14129.3	14792.9	15950.9	15980.1	12874.0
60°	11169.1	11124.4	11317.0	12500.3	14002.8	14489.3	15250.3	15818.5	16877.3	16466.6	12920.7
62.5°	11700.4	11628.4	11902.8	13327.4	15250.3	15692.0	16429.6	16908.4	17786.1	16647.6	12471.1
65°	12216.2	12183.1	12607.4	14310.3	16671.0	17173.1	17889.3	18214.3	18514.0	16375.2	11356.0
67.5°	12765.0	12831.2	13508.4	15622.0	18523.7	19154.3	19926.9	19621.4	18722.2	15084.8	9563.5
70°	13601.8	13644.7	14691.7	17340.5	20911.7	21672.7	22046.3	20121.6	17718.0	12634.6	7189.2
72.5°	13961.9	14150.7	15748.5	19144.6	23624.7	24089.8	22758.6	19006.4	14759.8	8582.7	3777.5
73°	13882.1	14107.9	15797.1	19419.0	23836.8	24325.3	22606.8	18432.3	13720.6	7391.6	3238.4
75°	12887.6	13165.9	15164.6	19189.3	23424.2	23132.3	20166.3	15709.6	9271.6	3361.1	1475.2
77.5°	10168.8	10248.6	12015.7	15495.5	18445.9	17904.9	15092.6	9818.5	3787.3	1249.4	836.9
80°	5100.9	5394.8	6772.7	8876.5	12334.9	12157.8	9526.5	4643.6	1578.4	733.7	554.7
82.5°	2454.1	2662.4	3298.8	4328.3	6815.5	6654.0	4717.5	2537.8	1002.3	428.2	327.0
85°	1580.3	1736.0	2099.9	2064.9	2802.5	2676.0	2119.4	1920.9	593.6	223.8	227.7
87.5°	1043.2	1142.4	1370.1	1095.7	1019.8	922.5	936.1	1082.1	116.8	85.6	31.1
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°	6054.6	6054.6	6054.6	6054.6	6054.6	6054.6	6054.6	6054.6	6054.6	6054.6	6054.6
2.5°	5988.4	5963.1	5879.4	5797.7	5719.8	5645.9	5597.2	5533.0	5490.2	5501.8	5519.4
5°	5838.5	5782.1	5634.2	5490.2	5353.9	5192.4	5062.0	4956.9	4877.1	4847.9	4842.1
7.5°	5680.9	5585.5	5373.4	5126.2	4894.6	4694.2	4462.6	4347.8	4213.5	4166.8	4151.2
10°	5585.5	5457.1	5159.3	4814.8	4466.5	4133.7	3882.6	3678.3	3493.4	3458.4	3440.8
12.5°	5558.3	5389.0	4988.1	4544.3	4081.1	3672.4	3300.7	3032.1	2853.1	2812.2	2751.9
15°	5542.7	5332.5	4828.5	4271.9	3684.1	3185.9	2794.7	2481.4	2317.9	2208.9	2210.9
17.5°	5529.1	5268.3	4649.4	3974.1	3341.6	2767.5	2335.4	2053.2	1903.4	1845.0	1839.1
20°	5509.6	5192.4	4443.1	3660.8	2950.4	2386.0	1994.8	1784.6	1683.4	1634.8	1632.8
22.5°	5501.8	5118.5	4240.7	3341.6	2604.0	2092.1	1769.1	1621.2	1556.9	1523.9	1523.9
25°	5521.3	5065.9	4028.6	3038.0	2296.5	1841.1	1613.4	1512.2	1475.2	1457.7	1451.9
27.5°	5581.6	5042.6	3818.4	2734.4	2014.3	1669.8	1508.3	1438.2	1411.0	1397.4	1399.3
30°	5696.5	5040.6	3612.1	2434.7	1804.1	1539.4	1424.6	1375.9	1354.5	1346.8	1344.8
32.5°	5881.4	5083.4	3409.7	2187.5	1627.0	1430.4	1346.8	1311.7	1302.0	1296.2	1294.2
35°	6194.7	5204.1	3209.3	1961.7	1490.8	1333.1	1272.8	1255.3	1241.7	1247.5	1249.4
37.5°	6617.0	5412.3	3018.5	1784.6	1387.6	1261.1	1210.5	1195.0	1187.2	1193.0	1198.8
40°	7183.3	5712.0	2858.9	1642.6	1313.7	1200.8	1156.0	1142.4	1134.6	1144.4	1146.3
42.5°	7808.1	6058.5	2726.6	1531.6	1253.3	1150.2	1107.4	1091.8	1086.0	1091.8	1093.8
45°	8450.3	6461.3	2658.5	1451.9	1202.7	1113.2	1068.5	1050.9	1037.3	1033.4	1039.3
47.5°	9082.8	6811.6	2656.5	1403.2	1161.9	1080.1	1031.5	1012.0	994.5	984.8	982.8
50°	9598.6	7089.9	2703.2	1381.8	1126.8	1043.2	994.5	975.0	951.7	932.2	936.1
52.5°	9987.8	7270.9	2724.7	1372.1	1107.4	1004.2	955.6	938.1	910.8	885.5	885.5
55°	10238.9	7313.7	2672.1	1362.3	1091.8	963.4	910.8	895.2	868.0	842.7	842.7
57.5°	10324.5	7181.4	2483.3	1339.0	1076.2	928.3	866.0	852.4	831.0	805.7	801.8
60°	10126.0	6733.8	2152.5	1268.9	1045.1	891.4	817.4	811.6	803.8	782.4	780.4
62.5°	9361.1	5784.0	1792.4	1177.4	992.6	852.4	772.6	782.4	788.2	776.5	774.6
65°	8088.3	4696.1	1531.6	1050.9	922.5	797.9	724.0	749.3	764.8	764.8	761.0
67.5°	6560.6	3606.3	1290.3	942.0	834.9	724.0	669.5	688.9	700.6	696.7	706.5
70°	4663.0	2442.5	1050.9	817.4	724.0	640.3	599.4	599.4	591.6	587.7	587.7
72.5°	2261.5	1395.4	852.4	683.1	616.9	546.9	513.8	500.2	484.6	482.7	472.9
73°	1889.7	1251.4	813.5	657.8	591.6	533.3	496.3	474.9	465.1	457.4	455.4
75°	1150.2	949.7	679.2	554.7	504.1	459.3	426.2	406.8	397.0	391.2	389.2
77.5°	757.1	708.4	527.4	424.3	385.3	358.1	344.5	325.0	319.2	311.4	311.4
80°	564.4	541.0	377.6	299.7	276.4	253.0	249.1	245.2	229.6	219.9	216.0
82.5°	363.9	385.3	256.9	200.5	175.2	155.7	157.6	163.5	147.9	134.3	130.4
85°	258.8	278.3	155.7	91.5	74.0	64.2	72.0	64.2	66.2	52.5	42.8
87.5°	42.8	74.0	27.2	11.7	5.8	3.9	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)