

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: P453795

Luminaire Tested: **GALN-SA4D-760-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-760-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30332 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

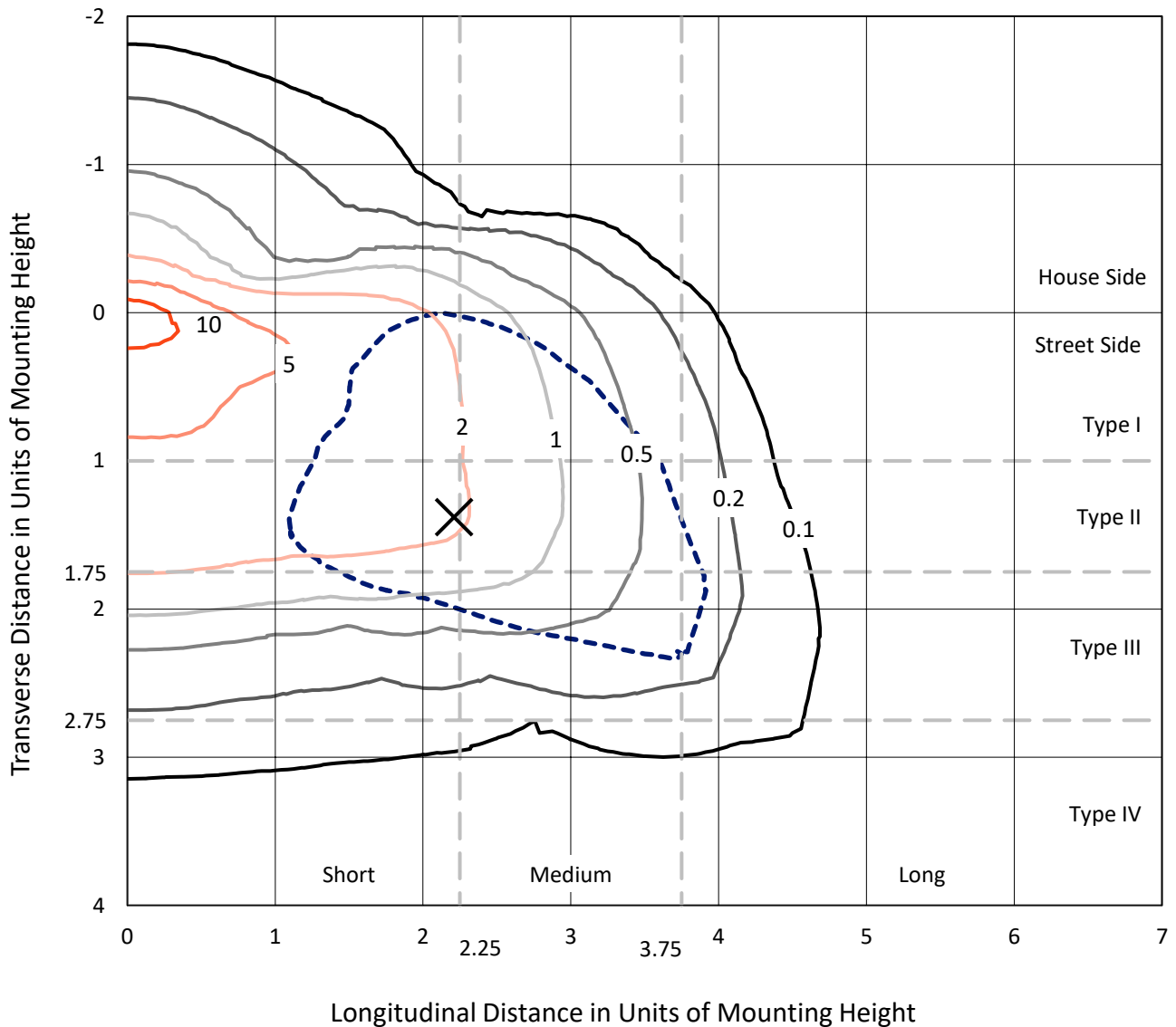
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

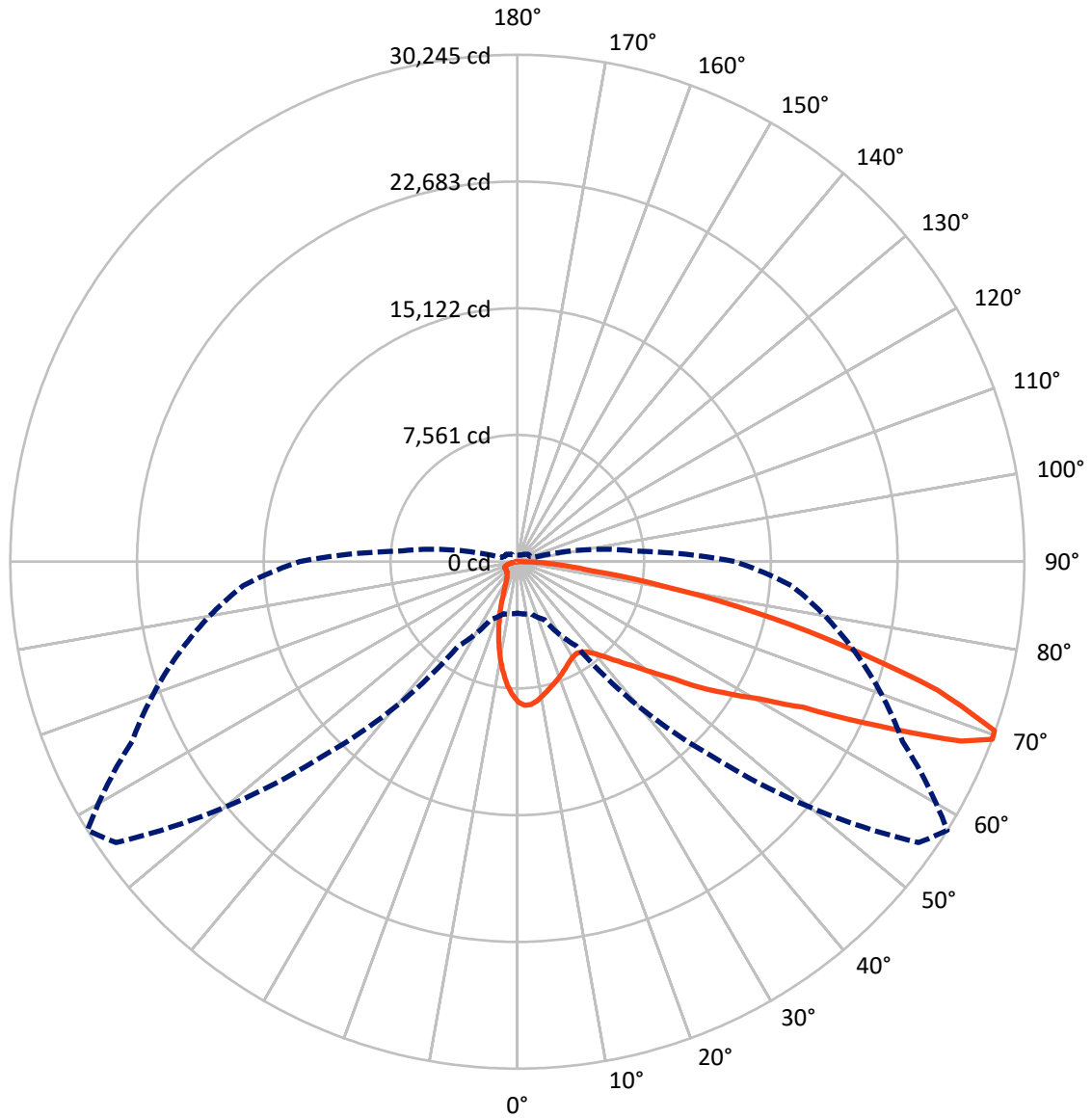
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4445.2	0.0	4445.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	25886.9	0.0	25886.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	30332.0	0.0	30332.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	711.8	2.3
10°-20°	1563.1	5.2
20°-30°	2019.5	6.7
30°-40°	2622.9	8.6
40°-50°	3813.4	12.6
50°-60°	6084.9	20.1
60°-70°	8128.7	26.8
70°-80°	4685.9	15.4
80°-90°	701.8	2.3
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°	30332.0	100.0
0°-180°	30332.0	100.0

Coefficient of Utilization



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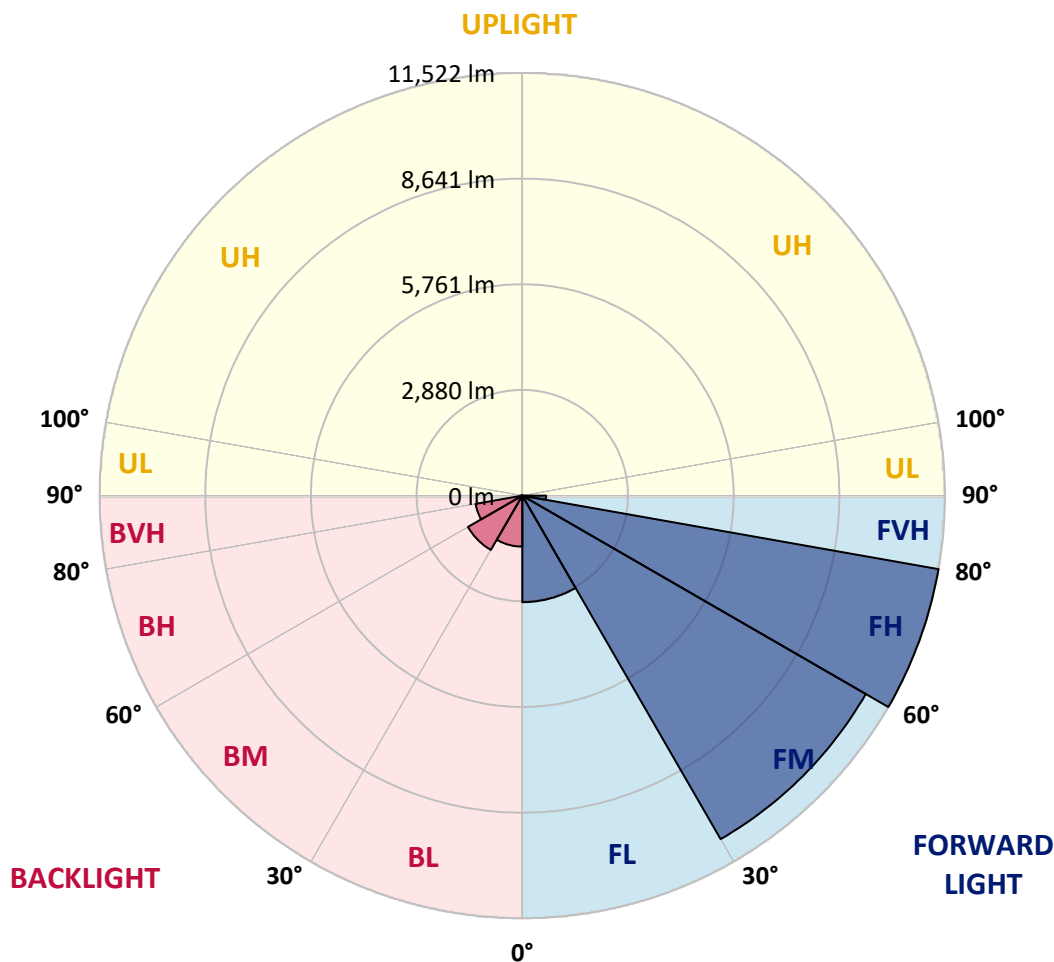
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2905.0	9.6			
FM	(30°-60°)	10811.8	35.6			
FH	(60°-80°)	11522.0	38.0			G4/12000
FVH	(80°-90°)	648.1	2.1			G4/750
BL	(0°-30°)	1389.4	4.6	B3/2500		
BM	(30°-60°)	1709.4	5.6	B2/2500		
BH	(60°-80°)	1292.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	53.8	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8382.0	8382.0	8382.0	8382.0	8382.0	8382.0	8382.0	8382.0	8382.0	8382.0	8382.0
2.5°	8693.2	8716.9	8710.2	8701.7	8688.2	8651.0	8590.1	8579.9	8541.0	8458.1	8354.9
5°	8559.6	8579.9	8581.6	8593.4	8610.4	8603.6	8559.6	8554.5	8497.0	8385.4	8212.8
7.5°	8101.2	8128.2	8187.5	8253.4	8312.6	8368.5	8382.0	8390.4	8354.9	8226.4	7996.3
10°	7585.2	7612.3	7639.4	7737.5	7883.0	8021.7	8136.7	8151.9	8160.4	8042.0	7761.2
12.5°	7013.5	7069.3	7126.8	7272.3	7466.8	7685.0	7888.0	7920.2	7977.7	7888.0	7558.2
15°	6528.0	6585.5	6668.4	6798.6	7033.8	7348.4	7634.3	7686.7	7800.1	7754.4	7368.7
17.5°	6191.3	6211.6	6269.2	6418.0	6671.8	7003.3	7385.6	7490.5	7671.5	7659.7	7206.3
20°	5925.8	5951.1	5986.7	6078.0	6341.9	6692.1	7153.9	7289.2	7534.5	7575.1	7045.6
22.5°	5814.1	5832.7	5827.6	5876.7	6056.0	6407.9	6918.7	7079.4	7412.7	7517.6	6896.7
25°	5820.9	5837.8	5812.4	5800.6	5907.1	6157.5	6673.5	6878.1	7314.6	7478.7	6761.4
27.5°	5934.2	5946.1	5898.7	5851.3	5859.8	6001.9	6470.5	6697.1	7231.7	7495.6	6648.1
30°	6086.5	6108.4	6078.0	6020.5	5957.9	5964.7	6340.2	6563.5	7192.8	7554.8	6593.9
32.5°	6282.7	6303.0	6289.5	6243.8	6162.6	6072.9	6308.1	6514.4	7196.2	7674.9	6582.1
35°	6489.1	6529.7	6551.7	6548.3	6482.3	6326.7	6434.9	6605.8	7277.4	7876.2	6651.5
37.5°	6722.5	6756.3	6851.1	6912.0	6851.1	6670.1	6720.8	6839.2	7456.7	8167.2	6803.7
40°	6949.2	6999.9	7138.6	7328.1	7304.4	7145.4	7157.3	7235.1	7773.0	8600.2	7101.4
42.5°	7186.0	7246.9	7488.8	7769.6	7825.4	7702.0	7734.1	7803.5	8223.0	9200.7	7612.3
45°	7490.5	7563.2	7861.0	8211.1	8431.0	8354.9	8446.3	8480.1	8825.2	9982.3	8285.6
47.5°	7883.0	7967.5	8334.6	8771.1	9082.3	9151.7	9310.7	9290.4	9571.2	10907.6	9158.4
50°	8544.4	8591.8	8938.5	9383.4	9811.4	10124.4	10296.9	10329.0	10496.5	11807.5	10134.5
52.5°	9331.0	9373.3	9623.6	10012.7	10549.0	11212.1	11638.4	11533.5	11574.1	12903.7	11276.4
55°	10215.7	10286.8	10445.8	10704.6	11399.8	12375.9	13231.9	13257.2	12807.3	13952.5	12370.8
57.5°	10900.8	11020.9	11293.3	11662.0	12543.4	13670.0	14820.3	14837.2	14262.1	15072.4	13578.7
60°	10555.7	10697.8	11320.3	12218.6	14043.8	15928.3	16718.3	16621.9	15678.0	16347.8	15052.1
62.5°	9067.1	9092.5	9997.5	11401.5	14505.7	18949.6	19543.3	19135.6	17567.5	17965.0	16549.1
65°	5868.2	6034.0	6751.3	8718.6	12988.3	20626.0	24493.0	23550.8	20216.6	19800.4	17802.6
67.5°	3704.7	3662.4	3960.1	4978.4	8933.5	19149.2	28717.0	28568.1	23681.0	20959.2	17503.2
69°	3072.0	3119.4	3220.8	3816.3	6147.4	16349.5	29216.0	30244.5	25360.8	20867.9	16415.5
70°	2786.1	2808.1	2914.7	3383.2	4743.3	13693.7	28397.3	30198.8	26020.5	20485.5	15627.2
72.5°	2211.0	2209.3	2392.0	2814.9	3545.6	7817.0	23317.3	26218.5	25283.0	18706.0	12912.2
75°	1679.8	1706.8	1908.2	2381.8	3266.5	4271.3	16271.7	20191.2	20192.9	14774.6	8057.2
77.5°	1211.2	1228.1	1463.3	1999.5	3077.1	3462.8	10838.2	14482.0	13614.2	6769.9	2532.4
80°	793.4	803.5	982.8	1583.4	2774.3	3266.5	6426.5	8864.1	6421.4	1796.5	837.4
82.5°	434.7	485.5	600.5	1025.1	2226.2	3017.9	3906.0	4486.2	2408.9	800.1	436.4
85°	218.2	231.8	338.3	598.8	1454.8	2496.8	2720.1	2573.0	1243.3	397.5	226.7
87.5°	64.3	81.2	140.4	231.8	590.4	1300.9	1514.0	1358.4	478.7	143.8	47.4
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°	8382.0	8382.0	8382.0	8382.0	8382.0	8382.0	8382.0	8382.0	8382.0	8382.0	8382.0
2.5°	8312.6	8282.2	8146.9	8025.1	7913.4	7795.0	7695.2	7607.2	7615.7	7617.4	7527.7
5°	8123.2	8053.8	7796.7	7556.5	7353.5	7096.4	6876.4	6734.3	6663.3	6568.6	6602.4
7.5°	7866.0	7732.4	7375.5	6976.3	6602.4	6269.2	5907.1	5658.5	5499.5	5345.5	5365.8
10°	7600.5	7385.6	6866.3	6338.5	5854.7	5321.8	4860.0	4464.2	4169.8	4059.9	3987.2
12.5°	7328.1	7045.6	6385.9	5683.9	5015.7	4377.9	3723.3	3298.7	2973.9	2801.3	2823.3
15°	7079.4	6736.0	5885.2	5029.2	4161.4	3401.9	2748.9	2344.6	2117.9	2070.5	2097.6
17.5°	6849.4	6399.4	5416.6	4393.1	3379.9	2551.0	2065.5	1837.1	1745.8	1720.4	1718.7
20°	6612.6	6113.5	4890.5	3713.1	2633.9	1977.5	1695.0	1588.4	1571.5	1581.7	1583.4
22.5°	6372.3	5760.0	4349.2	3038.2	2097.6	1617.2	1481.9	1453.1	1466.6	1490.3	1493.7
25°	6150.7	5448.7	3828.1	2446.1	1674.7	1421.0	1355.0	1355.0	1385.4	1421.0	1422.7
27.5°	5968.0	5147.6	3308.8	1942.0	1402.4	1278.9	1256.9	1268.7	1311.0	1338.1	1339.8
30°	5817.5	4866.8	2818.2	1556.3	1233.2	1165.5	1160.5	1180.8	1211.2	1236.6	1238.3
32.5°	5704.2	4619.8	2359.8	1307.6	1116.5	1079.3	1077.6	1092.8	1109.7	1116.5	1123.2
35°	5660.2	4415.1	1940.3	1150.3	1038.7	1015.0	1015.0	1013.3	1020.0	1023.4	1026.8
37.5°	5695.7	4257.8	1615.5	1048.8	981.1	964.2	954.1	943.9	940.5	940.5	942.2
40°	5846.2	4174.9	1373.6	982.8	940.5	915.2	896.6	884.7	872.9	876.3	879.6
42.5°	6166.0	4190.1	1209.5	938.9	905.0	869.5	842.4	828.9	820.4	830.6	828.9
45°	6675.1	4342.4	1104.6	908.4	869.5	823.8	798.4	784.9	784.9	800.1	805.2
47.5°	7387.3	4633.4	1048.8	884.7	842.4	788.3	762.9	752.8	756.2	781.5	783.2
50°	8256.8	5139.1	1038.7	872.9	828.9	762.9	734.2	724.0	732.5	759.5	762.9
52.5°	9216.0	5790.4	1087.7	874.6	817.1	747.7	710.5	695.3	703.7	725.7	732.5
55°	10352.7	6605.8	1214.6	881.3	800.1	739.2	693.6	659.7	669.9	685.1	686.8
57.5°	11513.2	7634.3	1437.9	883.0	786.6	724.0	664.8	620.8	620.8	631.0	636.1
60°	12930.8	8754.1	1732.2	884.7	788.3	702.0	625.9	576.8	570.1	575.2	576.8
62.5°	14338.2	9691.3	1781.3	879.6	805.2	680.0	583.6	532.9	521.0	519.3	515.9
65°	14959.0	9517.1	1459.9	856.0	823.8	666.5	549.8	490.6	470.3	463.5	463.5
67.5°	13947.4	8050.4	1097.9	823.8	812.0	653.0	517.6	455.0	431.4	417.8	417.8
69°	12996.7	7160.6	986.2	801.8	781.5	631.0	497.3	436.4	407.7	392.5	387.4
70°	12262.6	6548.3	938.9	783.2	752.8	605.6	482.1	422.9	390.8	373.8	370.5
72.5°	9786.0	5137.5	822.1	712.2	641.1	509.2	428.0	380.6	350.2	331.6	326.5
75°	5639.9	2784.4	681.7	619.1	515.9	395.8	362.0	331.6	307.9	291.0	285.9
77.5°	1735.6	1075.9	494.0	488.9	378.9	306.2	289.3	277.4	260.5	241.9	238.5
80°	730.8	548.1	334.9	329.9	252.1	213.1	208.1	206.4	199.6	184.4	179.3
82.5°	400.9	309.6	233.4	203.0	152.2	123.5	128.6	130.3	125.2	110.0	99.8
85°	196.2	169.2	113.3	91.3	69.4	44.0	42.3	50.7	47.4	33.8	37.2
87.5°	38.9	47.4	30.4	13.5	6.8	0.0	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)