

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: P456784

Luminaire Tested: **GALN-SA8A-750-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456784
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-SA8A-750-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 615mA 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: 36146 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

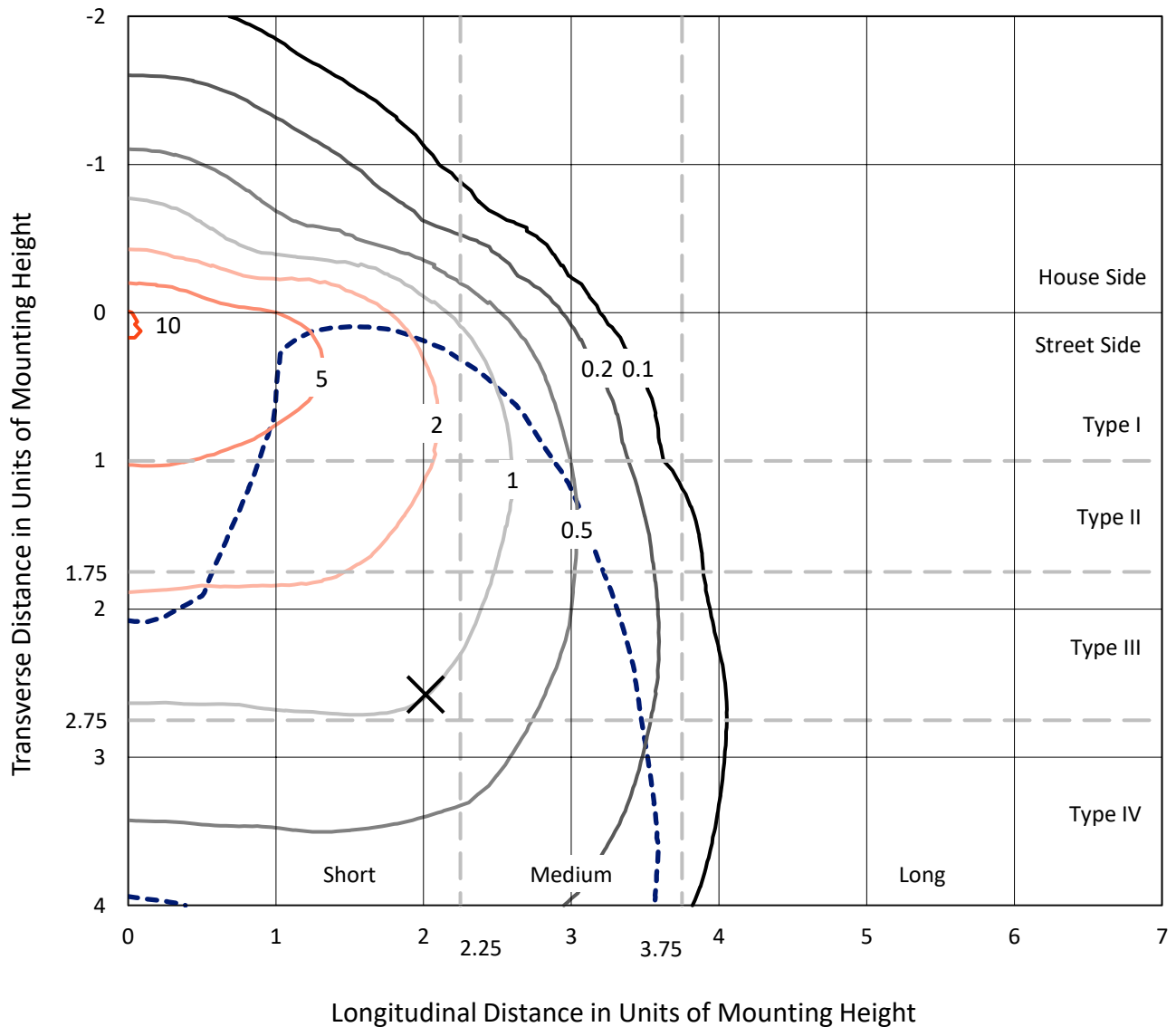
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

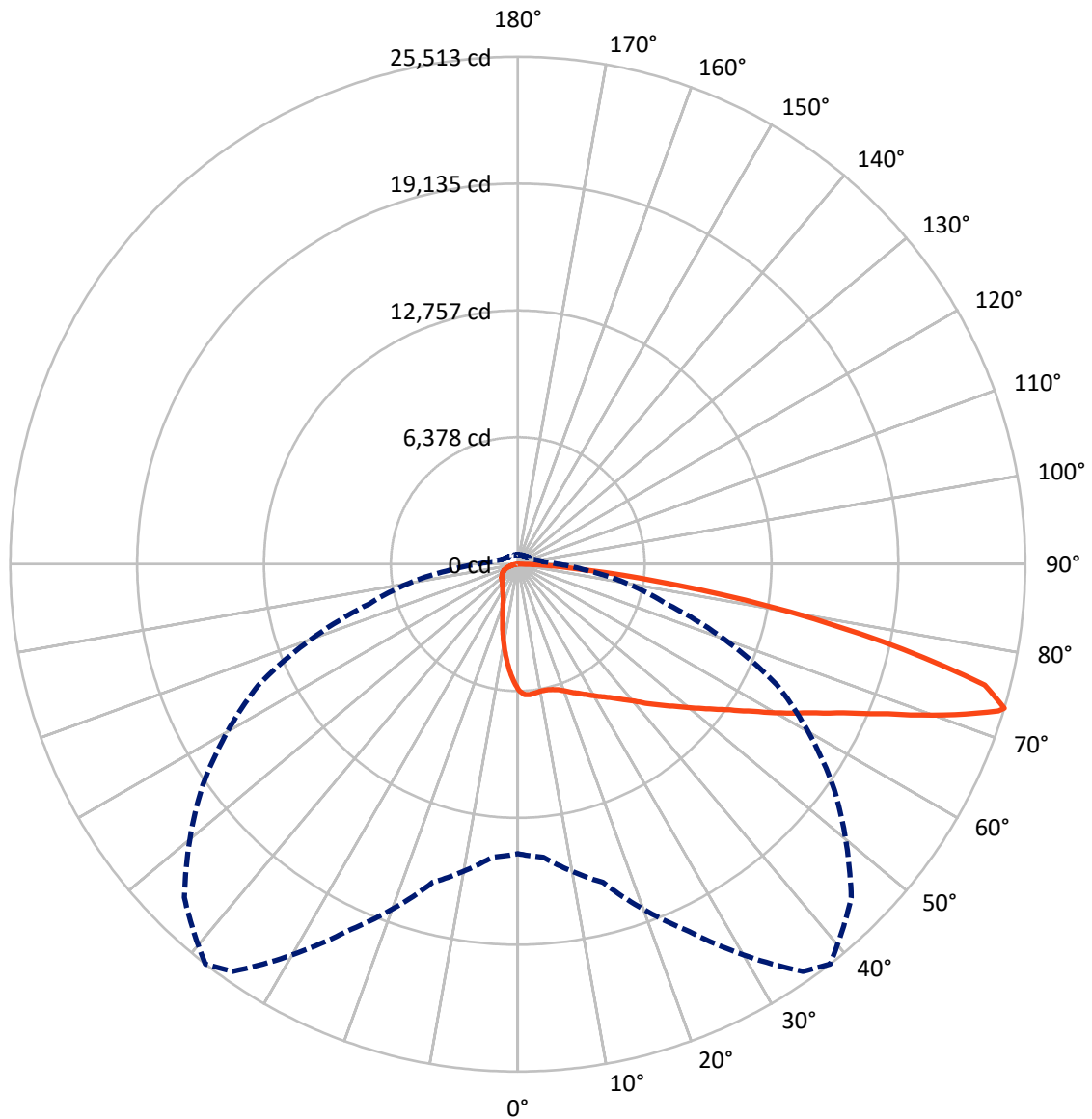
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	4859.1	0.0	4859.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	31286.9	0.0	31286.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	36146.0	0.0	36146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.3	1.5
10°-20°	1421.4	3.9
20°-30°	2213.4	6.1
30°-40°	3246.6	9.0
40°-50°	4815.9	13.3
50°-60°	6823.3	18.9
60°-70°	8655.5	23.9
70°-80°	7205.0	19.9
80°-90°	1210.6	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°	36146.0	100.0
0°-180°	36146.0	100.0

Coefficient of Utilization



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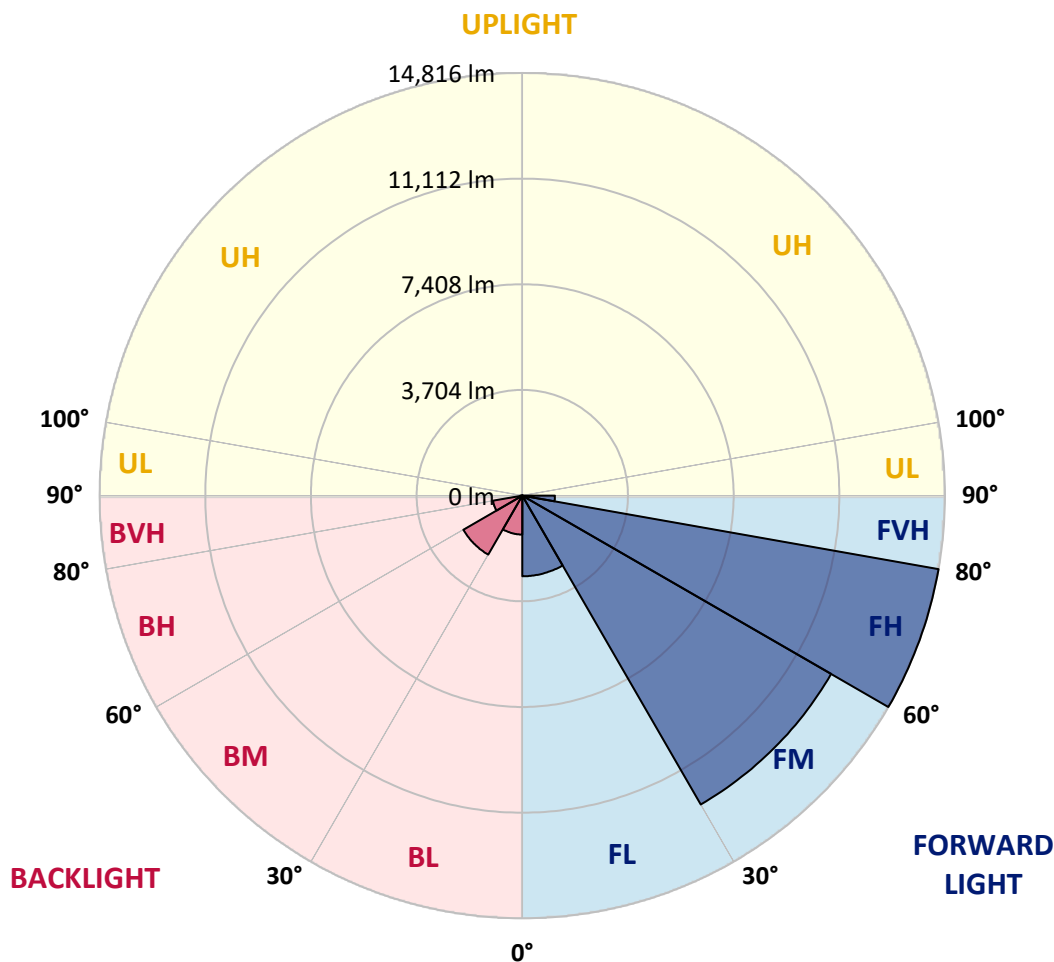
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2825.6	7.8			
FM	(30°-60°)	12500.3	34.6			
FH	(60°-80°)	14816.1	41.0			G5
FVH	(80°-90°)	1144.9	3.2			G5
BL	(0°-30°)	1363.5	3.8	B3/2500		
BM	(30°-60°)	2385.5	6.6	B2/2500		
BH	(60°-80°)	1044.4	2.9	B3/2500		G3/2500
BVH	(80°-90°)	65.6	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°	6350.2	6350.2	6350.2	6350.2	6350.2	6350.2	6350.2	6350.2	6350.2	6350.2	6350.2
2.5°	6605.4	6638.1	6621.7	6599.3	6585.0	6570.7	6550.3	6491.1	6444.1	6393.1	6313.5
5°	6654.4	6674.8	6660.5	6631.9	6599.3	6585.0	6546.2	6468.6	6393.1	6307.4	6189.0
7.5°	6625.8	6634.0	6617.6	6582.9	6554.4	6527.8	6482.9	6397.2	6305.3	6201.2	6046.1
10°	6523.7	6554.4	6554.4	6525.8	6497.2	6482.9	6438.0	6356.4	6272.7	6154.3	5970.6
12.5°	6440.1	6472.7	6499.2	6491.1	6489.0	6489.0	6454.3	6393.1	6295.1	6182.9	5964.4
15°	6382.9	6421.7	6478.8	6511.5	6531.9	6538.0	6523.7	6470.7	6370.7	6240.0	5988.9
17.5°	6370.7	6417.6	6521.7	6593.1	6646.2	6644.2	6640.1	6566.6	6456.4	6321.7	6019.6
20°	6425.8	6487.0	6631.9	6744.2	6821.8	6807.5	6785.0	6689.1	6560.5	6409.4	6048.1
22.5°	6591.1	6654.4	6813.6	6936.1	7011.6	7011.6	6944.2	6817.7	6680.9	6511.5	6086.9
25°	6827.9	6897.3	7066.7	7191.2	7225.9	7199.4	7132.0	6978.9	6821.8	6658.5	6168.6
27.5°	7117.7	7201.4	7358.6	7462.7	7452.5	7432.1	7362.7	7166.7	7009.6	6860.5	6307.4
30°	7479.0	7540.3	7703.6	7728.1	7691.3	7687.2	7589.3	7393.3	7246.3	7132.0	6505.4
32.5°	7819.9	7875.0	8005.7	8015.9	7950.6	7958.7	7866.9	7687.2	7603.5	7562.7	6838.1
35°	8181.2	8209.8	8322.1	8309.8	8266.9	8260.8	8224.1	8052.6	8079.2	8152.6	7309.6
37.5°	8483.3	8540.5	8603.7	8614.0	8611.9	8632.3	8656.8	8575.2	8728.3	8958.9	7928.1
40°	8760.9	8809.9	8903.8	8936.5	9016.1	9056.9	9140.6	9142.6	9495.8	9875.4	8689.5
42.5°	8948.7	9032.4	9207.9	9267.1	9461.1	9583.5	9708.0	9840.7	10353.1	10840.9	9587.6
45°	9112.0	9222.2	9514.1	9697.8	9961.2	10110.2	10373.5	10651.1	11388.0	12026.9	10500.0
47.5°	9359.0	9457.0	9791.7	10116.3	10514.3	10685.8	11079.7	11494.1	12457.6	13157.7	11373.7
50°	9701.9	9761.1	10102.0	10630.7	11138.9	11359.4	11879.9	12478.0	13600.7	14274.3	12141.2
52.5°	10140.8	10165.3	10436.8	11141.0	11810.5	12084.0	12774.0	13472.1	14600.9	15243.8	12749.5
55°	10659.3	10618.4	10830.7	11681.9	12578.0	12935.2	13676.2	14478.4	15725.6	16027.7	13192.4
57.5°	11171.6	11108.3	11277.7	12339.2	13525.1	13955.8	14819.3	15515.3	16729.9	16760.5	13502.7
60°	11714.6	11667.6	11869.7	13110.8	14686.6	15196.9	15995.0	16591.0	17701.5	17270.8	13551.7
62.5°	12271.8	12196.3	12484.1	13978.3	15995.0	16458.4	17232.0	17734.1	18654.7	17460.6	13080.1
65°	12812.7	12778.0	13223.0	15009.1	17485.1	18011.7	18762.9	19103.8	19418.1	17174.8	11910.5
67.5°	13388.4	13457.8	14168.1	16384.9	19428.3	20089.7	20900.1	20579.6	19636.5	15821.5	10030.6
70°	14266.1	14311.0	15409.2	18187.3	21932.9	22731.0	23123.0	21104.2	18583.3	13251.6	7540.3
72.5°	14643.7	14841.7	16517.6	20079.5	24778.4	25266.2	23870.0	19934.6	15480.6	9001.8	3962.0
73°	14560.0	14796.8	16568.6	20367.3	25000.9	25513.2	23710.8	19332.4	14390.6	7752.6	3396.6
75°	13517.0	13808.9	15905.2	20126.4	24568.1	24262.0	21151.1	16476.7	9724.4	3525.2	1547.2
77.5°	10665.4	10749.1	12602.5	16252.2	19346.7	18779.2	15829.7	10298.0	3972.2	1310.5	877.7
80°	5350.0	5658.3	7103.5	9310.0	12937.3	12751.5	9991.8	4870.4	1655.4	769.5	581.7
82.5°	2574.0	2792.4	3459.9	4539.7	7148.4	6978.9	4947.9	2661.8	1051.2	449.1	342.9
85°	1657.5	1820.8	2202.5	2165.7	2939.4	2806.7	2222.9	2014.7	622.6	234.7	238.8
87.5°	1094.1	1198.2	1437.0	1149.2	1069.6	967.5	981.8	1134.9	122.5	89.8	32.7
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°	6350.2	6350.2	6350.2	6350.2	6350.2	6350.2	6350.2	6350.2	6350.2	6350.2	6350.2
2.5°	6280.8	6254.3	6166.5	6080.8	5999.1	5921.6	5870.6	5803.2	5758.3	5770.5	5788.9
5°	6123.7	6064.5	5909.3	5758.3	5615.4	5446.0	5309.2	5199.0	5115.3	5084.7	5078.6
7.5°	5958.3	5858.3	5635.8	5376.6	5133.7	4923.4	4680.5	4560.1	4419.2	4370.3	4353.9
10°	5858.3	5723.6	5411.3	5050.0	4684.6	4335.6	4072.2	3857.9	3664.0	3627.3	3608.9
12.5°	5829.7	5652.1	5231.7	4766.3	4280.4	3851.8	3461.9	3180.2	2992.4	2949.6	2886.3
15°	5813.4	5592.9	5064.3	4480.5	3864.0	3341.5	2931.2	2602.6	2431.1	2316.8	2318.8
17.5°	5799.1	5525.6	4876.5	4168.2	3504.8	2902.6	2449.5	2153.5	1996.3	1935.1	1929.0
20°	5778.7	5446.0	4660.1	3839.5	3094.5	2502.5	2092.3	1871.8	1765.7	1714.6	1712.6
22.5°	5770.5	5368.4	4447.8	3504.8	2731.2	2194.3	1855.5	1700.3	1633.0	1598.3	1598.3
25°	5790.9	5313.3	4225.3	3186.3	2408.6	1931.0	1692.2	1586.0	1547.2	1528.9	1522.8
27.5°	5854.2	5288.8	4004.9	2867.9	2112.7	1751.4	1581.9	1508.5	1479.9	1465.6	1467.6
30°	5974.7	5286.8	3788.5	2553.6	1892.2	1614.6	1494.2	1443.1	1420.7	1412.5	1410.5
32.5°	6168.6	5331.7	3576.2	2294.3	1706.5	1500.3	1412.5	1375.8	1365.6	1359.5	1357.4
35°	6497.2	5458.2	3366.0	2057.6	1563.6	1398.2	1335.0	1316.6	1302.3	1308.4	1310.5
37.5°	6940.2	5676.6	3165.9	1871.8	1455.4	1322.7	1269.6	1253.3	1245.1	1251.3	1257.4
40°	7534.1	5991.0	2998.6	1722.8	1377.8	1259.4	1212.5	1198.2	1190.0	1200.2	1202.3
42.5°	8189.4	6354.3	2859.8	1606.4	1314.5	1206.4	1161.5	1145.1	1139.0	1145.1	1147.2
45°	8863.0	6776.9	2788.3	1522.8	1261.5	1167.6	1120.6	1102.3	1088.0	1083.9	1090.0
47.5°	9526.4	7144.3	2786.3	1471.7	1218.6	1132.9	1081.8	1061.4	1043.1	1032.9	1030.8
50°	10067.3	7436.2	2835.3	1449.3	1181.9	1094.1	1043.1	1022.7	998.2	977.7	981.8
52.5°	10475.5	7626.0	2857.7	1439.1	1161.5	1053.3	1002.2	983.9	955.3	928.8	928.8
55°	10738.9	7670.9	2802.6	1428.9	1145.1	1010.4	955.3	939.0	910.4	883.8	883.8
57.5°	10828.7	7532.1	2604.6	1404.4	1128.8	973.7	908.3	894.1	871.6	845.1	841.0
60°	10620.5	7062.6	2257.6	1330.9	1096.1	934.9	857.3	851.2	843.0	820.6	818.5
62.5°	9818.3	6066.5	1880.0	1234.9	1041.0	894.1	810.4	820.6	826.7	814.4	812.4
65°	8483.3	4925.5	1606.4	1102.3	967.5	836.9	759.3	785.9	802.2	802.2	798.1
67.5°	6881.0	3782.4	1353.3	988.0	875.7	759.3	702.2	722.6	734.8	730.8	741.0
70°	4890.8	2561.7	1102.3	857.3	759.3	671.6	628.7	628.7	620.5	616.4	616.4
72.5°	2371.9	1463.6	894.1	716.5	647.1	573.6	538.9	524.6	508.3	506.2	496.0
73°	1982.0	1312.5	853.2	689.9	620.5	559.3	520.5	498.1	487.9	479.7	477.6
75°	1206.4	996.1	712.4	581.7	528.7	481.7	447.0	426.6	416.4	410.3	408.2
77.5°	794.0	743.0	553.2	445.0	404.2	375.6	361.3	340.9	334.8	326.6	326.6
80°	592.0	567.5	396.0	314.3	289.9	265.4	261.3	257.2	240.9	230.7	226.6
82.5°	381.7	404.2	269.4	210.2	183.7	163.3	165.3	171.5	155.1	140.8	136.8
85°	271.5	291.9	163.3	95.9	77.6	67.4	75.5	67.4	69.4	55.1	44.9
87.5°	44.9	77.6	28.6	12.2	6.1	4.1	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)