

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: P453528

Luminaire Tested: **GALN-SA4C-750-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-750-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22786 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

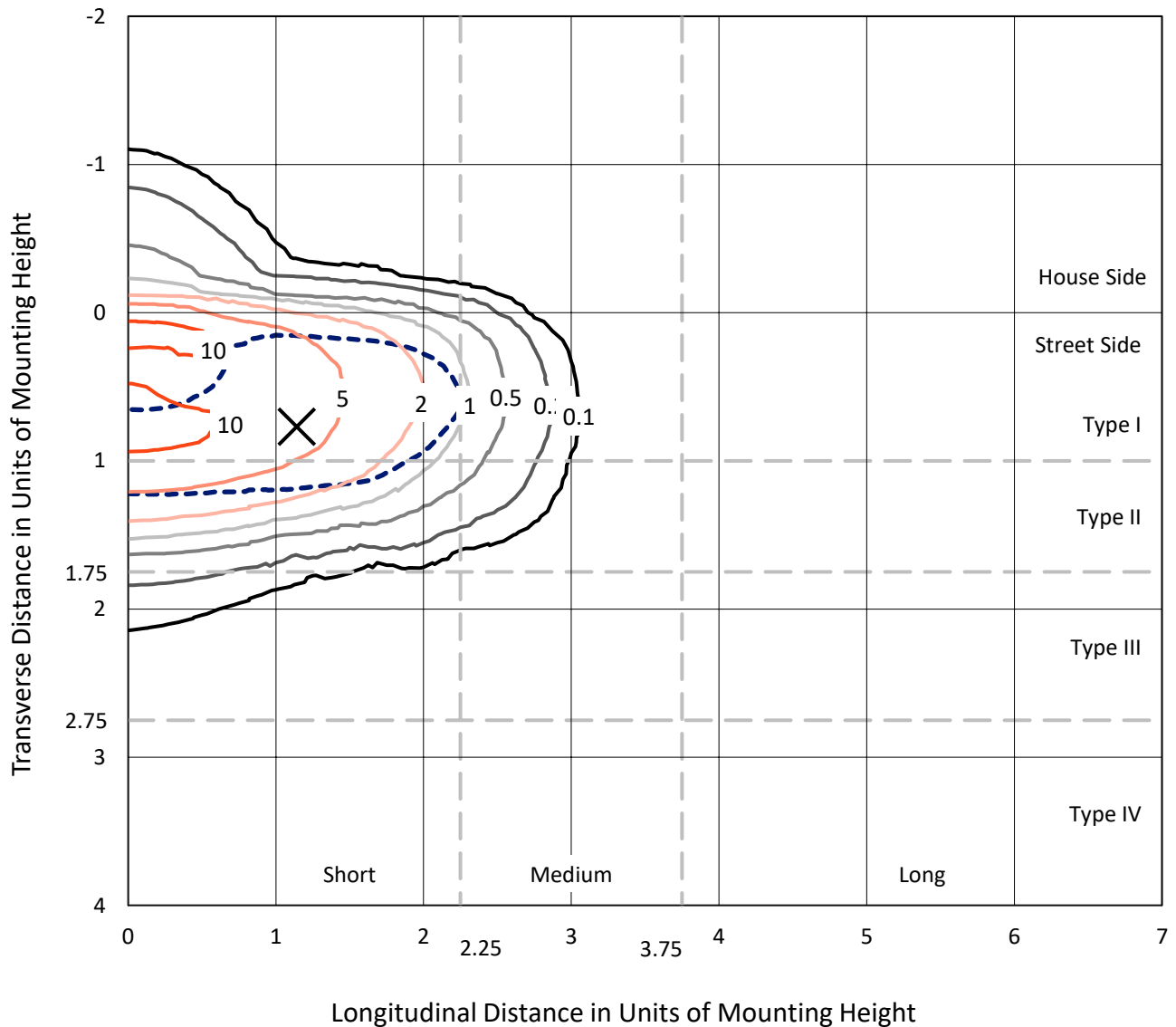
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

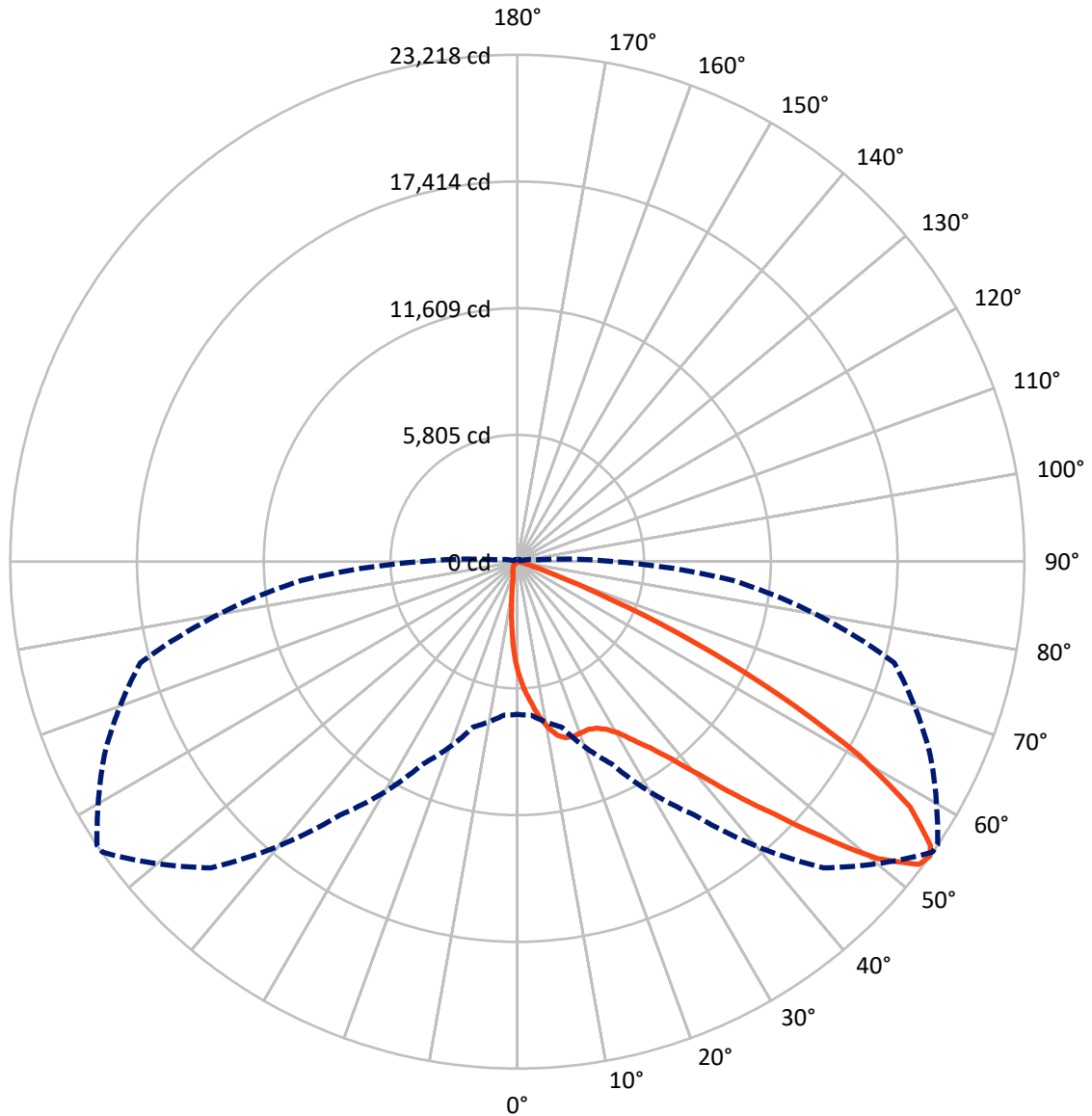
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1077.5	0.0	1077.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	21708.5	0.0	21708.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	22786.0	0.0	22786.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.3	2.0
10°-20°	1209.3	5.3
20°-30°	2094.4	9.2
30°-40°	3615.3	15.9
40°-50°	6153.4	27.0
50°-60°	6089.6	26.7
60°-70°	2779.4	12.2
70°-80°	356.9	1.6
80°-90°	40.2	0.2
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°	22786.0	100.0
0°-180°	22786.0	100.0

Coefficient of Utilization



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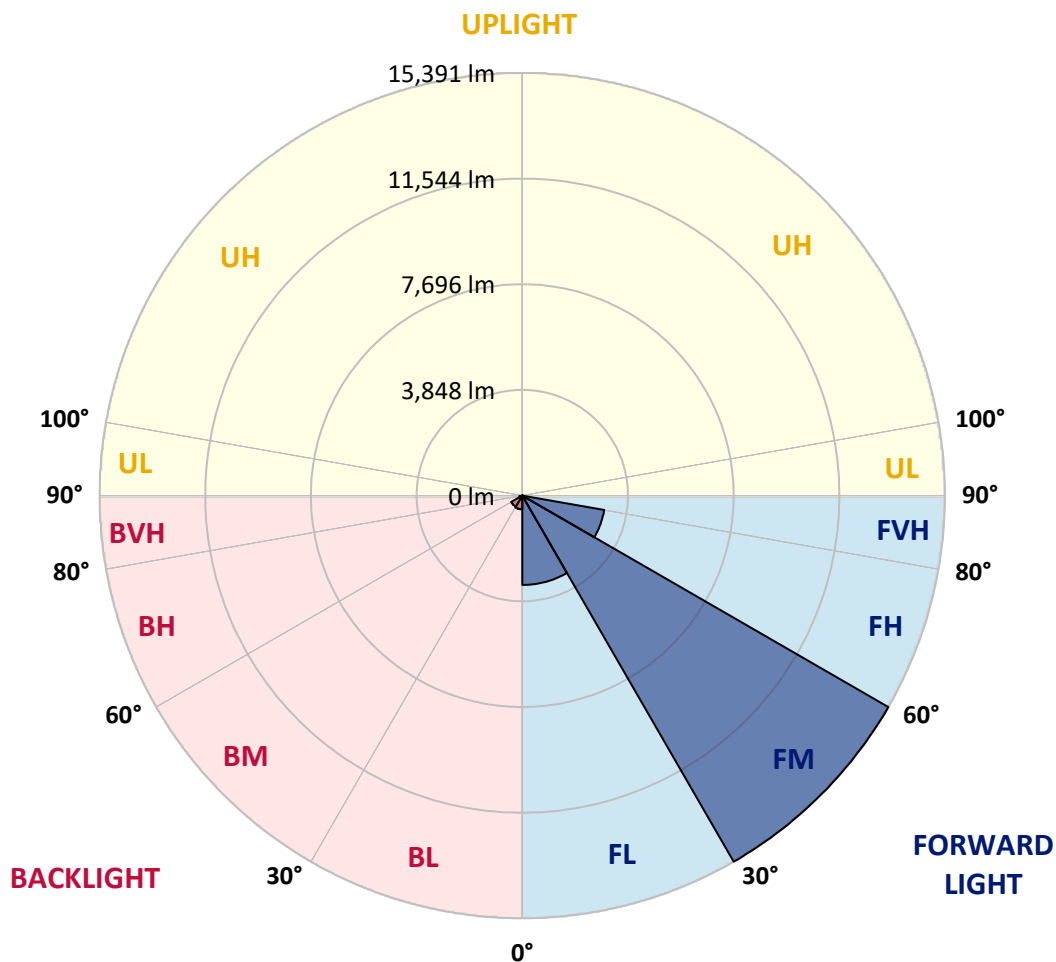
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3252.8	14.3			
FM (30°-60°)	15391.4	67.5			
FH (60°-80°)	3028.5	13.3			G2/5000
FVH (80°-90°)	35.9	0.2			G1/100
BL (0°-30°)	498.3	2.2	B1/500		
BM (30°-60°)	467.0	2.0	B1/1000		
BH (60°-80°)	107.9	0.5	B0/110		G0/110
BVH (80°-90°)	4.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5062.4	5062.4	5062.4	5062.4	5062.4	5062.4	5062.4	5062.4	5062.4	5062.4	5062.4
2.5°	6433.7	6389.1	6327.6	6280.0	6167.7	6006.3	5835.7	5835.7	5671.2	5442.1	5208.4
5°	7420.6	7391.4	7331.5	7208.5	7082.4	6856.4	6513.6	6453.7	6160.0	5745.0	5308.4
7.5°	7821.9	7835.7	7838.8	7806.5	7746.6	7523.6	7183.9	7142.4	6673.5	6117.0	5439.0
10°	7437.6	7505.2	7571.3	7705.0	7894.1	7947.9	7755.8	7712.7	7251.5	6493.6	5580.5
12.5°	6865.7	6902.6	6939.5	7150.1	7529.8	7964.9	8166.2	8164.7	7774.2	6868.7	5760.3
15°	6599.7	6632.0	6635.1	6728.8	7057.8	7691.2	8341.5	8364.6	8284.6	7331.5	5954.0
17.5°	6655.1	6681.2	6659.7	6682.7	6854.9	7389.9	8321.5	8398.4	8698.2	7775.8	6129.3
20°	7016.3	7067.1	6984.0	6919.5	6971.7	7310.0	8253.9	8361.5	8990.2	8209.3	6289.2
22.5°	7665.1	7692.7	7588.2	7411.4	7319.2	7477.5	8235.4	8341.5	9239.3	8564.4	6381.4
25°	8386.1	8376.9	8261.6	8063.2	7869.5	7815.7	8356.9	8452.2	9445.3	8884.2	6409.1
27.5°	9107.1	9134.8	8941.1	8695.1	8462.9	8323.0	8629.0	8699.7	9677.4	9248.5	6442.9
30°	9944.9	9900.3	9709.7	9428.4	9162.4	8967.2	9067.1	9087.1	9997.2	9731.2	6532.1
32.5°	11034.9	10911.9	10698.2	10206.3	10015.6	9685.1	9709.7	9734.3	10386.1	10209.3	6639.7
35°	12513.8	12507.6	12089.5	11426.9	10962.6	10552.2	10444.6	10464.5	10974.9	10919.6	6878.0
37.5°	14294.0	14318.6	13842.0	13174.8	12320.1	11668.3	11446.9	11450.0	11869.6	11900.4	7240.8
40°	15743.7	15808.3	15523.9	15073.4	14229.4	13210.2	12838.2	12804.3	13127.2	13088.7	7758.9
42.5°	16367.8	16427.8	16533.9	16690.7	16226.4	15385.5	14507.7	14553.8	14652.2	14383.2	8340.0
45°	16061.9	16157.2	16573.8	17542.4	17979.0	17696.1	16649.2	16487.8	16071.1	15789.8	8924.1
47.5°	14787.5	15019.6	15716.0	17328.7	18856.8	19813.0	19065.8	18852.2	17491.6	16816.7	9296.2
50°	12692.1	12705.9	13676.0	15737.5	18401.7	21148.9	21533.2	21373.4	18815.3	17393.2	9483.7
52.5°	9200.9	9503.7	10392.3	12779.7	16430.9	20946.0	23105.9	23039.8	20180.4	17688.4	9754.3
54°	6994.8	7053.2	7843.4	10212.4	14166.4	19831.4	23202.8	23218.1	20858.4	17866.7	9914.2
55°	5734.2	5594.3	6424.5	8699.7	12621.4	18846.0	22886.1	22959.9	21162.7	17959.0	10032.5
57.5°	2718.0	2719.5	3354.4	4588.9	7904.9	14633.7	20950.6	21211.9	21196.6	18117.3	10396.9
60°	1375.9	1385.1	1525.0	2118.4	3904.8	9728.2	17322.5	17945.1	19565.5	18140.4	10516.8
62.5°	962.4	951.6	928.5	1019.2	1643.4	4944.0	12896.6	13437.7	16623.0	17262.6	10135.5
65°	824.0	800.9	736.4	722.5	830.2	1969.3	8032.5	8914.9	12692.1	14947.4	9050.2
67.5°	704.1	694.9	636.5	601.1	587.3	857.8	4144.6	4608.9	8675.1	10744.3	6854.9
70°	598.0	593.4	558.0	513.5	475.0	513.5	1537.3	1904.7	4834.9	5784.9	3234.5
72.5°	485.8	490.4	496.6	439.7	399.7	364.3	656.4	764.0	2023.1	2067.7	1131.5
75°	425.8	421.2	421.2	382.8	333.6	270.6	361.3	388.9	619.5	575.0	262.9
77.5°	299.8	289.0	338.2	315.2	278.3	192.2	206.0	218.3	256.7	219.8	123.0
80°	207.5	207.5	216.8	282.9	250.6	139.9	126.1	135.3	152.2	130.7	70.7
82.5°	116.8	119.9	141.4	150.7	146.0	93.8	83.0	84.6	101.5	89.2	44.6
85°	13.8	23.1	81.5	79.9	60.0	41.5	46.1	47.7	63.0	55.3	26.1
87.5°	1.5	3.1	16.9	21.5	15.4	16.9	16.9	16.9	21.5	24.6	18.4
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°	5062.4	5062.4	5062.4	5062.4	5062.4	5062.4	5062.4	5062.4	5062.4	5062.4	5062.4
2.5°	5082.4	4965.5	4687.3	4364.5	4158.5	3823.3	3540.4	3336.0	3285.3	3186.9	3216.1
5°	5076.2	4833.3	4266.1	3666.5	3027.0	2550.4	2195.3	1915.5	1792.5	1711.0	1654.2
7.5°	5079.3	4699.6	3789.5	2834.8	2070.8	1603.4	1274.4	1103.8	990.0	942.4	948.5
10°	5088.5	4548.9	3236.1	2100.0	1397.4	1036.2	834.8	753.3	714.9	708.7	707.2
12.5°	5110.1	4384.4	2707.2	1558.8	977.7	753.3	676.4	648.7	636.5	636.5	631.8
15°	5133.1	4203.0	2267.5	1159.1	753.3	647.2	611.9	598.0	590.3	590.3	588.8
17.5°	5133.1	3994.0	1857.1	899.3	648.7	594.9	567.3	548.8	542.7	542.7	541.1
20°	5100.8	3751.1	1492.7	724.1	588.8	545.7	518.1	498.1	490.4	487.3	485.8
22.5°	4988.6	3426.7	1188.3	622.6	539.6	502.7	467.3	444.3	438.1	435.1	436.6
25°	4788.8	3060.8	940.8	547.3	495.0	450.4	419.7	402.8	396.6	396.6	398.2
27.5°	4582.8	2678.0	745.6	490.4	441.2	401.2	376.6	365.9	364.3	369.0	370.5
30°	4392.1	2293.7	604.2	444.3	393.6	359.7	342.8	339.7	339.7	341.3	342.8
32.5°	4180.0	1957.0	505.8	404.3	355.1	325.9	316.7	316.7	319.8	319.8	322.8
35°	4046.2	1668.0	444.3	365.9	325.9	301.3	295.2	296.7	301.3	307.5	310.5
37.5°	3974.0	1437.4	404.3	335.1	298.2	281.3	275.2	278.3	289.0	299.8	301.3
40°	3980.1	1263.7	372.0	309.0	276.7	258.3	253.7	262.9	273.6	284.4	285.9
42.5°	4047.8	1134.5	341.3	278.3	258.3	232.1	230.6	239.8	244.4	255.2	256.7
45°	4127.7	1040.8	309.0	246.0	224.4	201.4	202.9	210.6	216.8	233.7	236.7
47.5°	4152.3	976.2	272.1	209.1	184.5	176.8	178.3	182.9	195.2	210.6	212.2
50°	4180.0	936.2	236.7	176.8	156.8	155.3	156.8	159.9	167.6	173.7	172.2
52.5°	4298.3	934.7	207.5	153.7	133.7	136.8	138.4	136.8	130.7	121.4	118.4
54°	4409.0	939.3	193.7	143.0	123.0	127.6	126.1	118.4	103.0	93.8	89.2
55°	4498.2	943.9	186.0	135.3	116.8	118.4	119.9	104.5	84.6	75.3	72.3
57.5°	4673.5	933.2	167.6	118.4	103.0	96.9	95.3	69.2	46.1	40.0	36.9
60°	4585.8	842.5	152.2	101.5	87.6	78.4	64.6	38.4	23.1	16.9	16.9
62.5°	4241.5	714.9	135.3	83.0	72.3	60.0	33.8	21.5	10.8	6.1	4.6
65°	3794.1	601.1	121.4	66.1	56.9	38.4	18.4	13.8	4.6	0.0	0.0
67.5°	2821.0	445.8	103.0	52.3	43.0	24.6	12.3	7.7	1.5	0.0	0.0
70°	1306.7	272.1	87.6	40.0	30.7	18.4	9.2	4.6	0.0	0.0	0.0
72.5°	375.1	170.6	72.3	29.2	21.5	15.4	7.7	3.1	1.5	0.0	0.0
75°	130.7	136.8	53.8	21.5	16.9	10.8	6.1	3.1	1.5	0.0	0.0
77.5°	78.4	110.7	33.8	18.4	13.8	9.2	6.1	3.1	1.5	1.5	0.0
80°	44.6	73.8	21.5	15.4	12.3	7.7	4.6	3.1	1.5	1.5	0.0
82.5°	24.6	35.4	16.9	13.8	10.8	7.7	4.6	3.1	1.5	1.5	1.5
85°	20.0	18.4	13.8	12.3	9.2	6.1	4.6	1.5	0.0	0.0	0.0
87.5°	15.4	12.3	12.3	12.3	9.2	6.1	4.6	1.5	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)