

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: P454166

Luminaire Tested: **GALN-SA5B-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454166
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-SA5B-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA 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: 21262 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

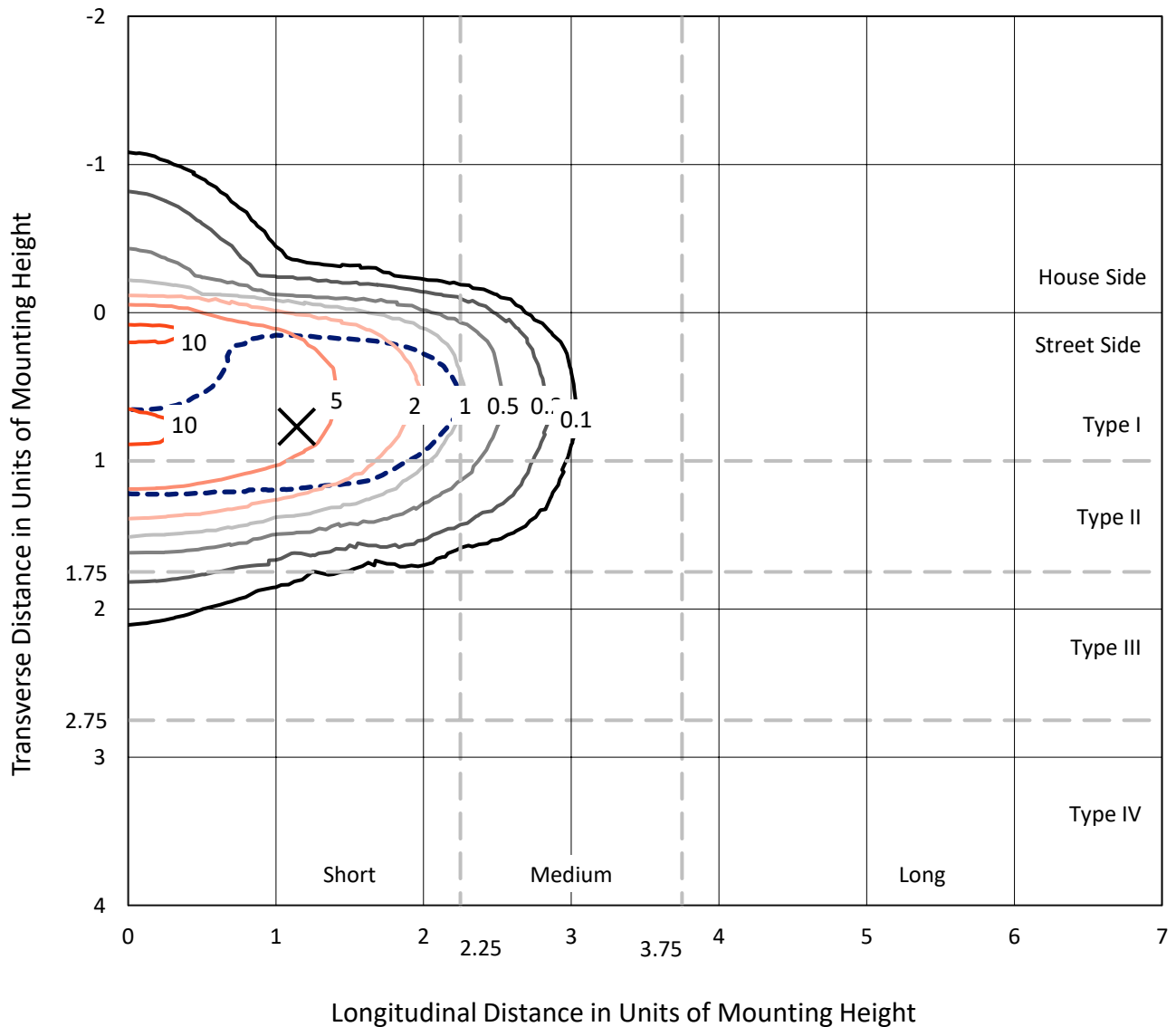
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

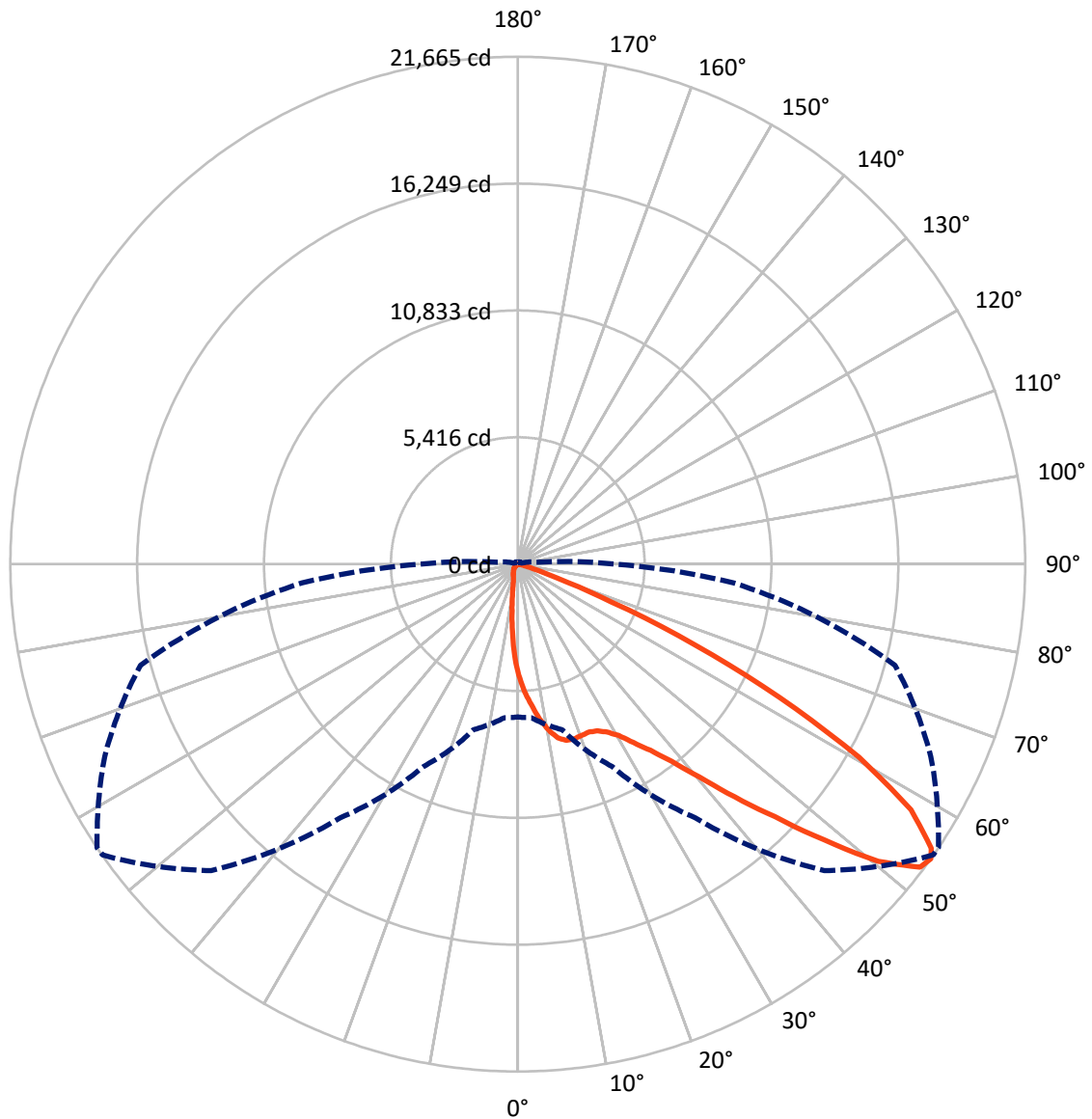
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	1005.4	0.0	1005.4
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	20256.6	0.0	20256.6
	% Fixture	95.3	0.0	95.3
Total	Lumens	21262.0	0.0	21262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.4	2.0
10°-20°	1128.4	5.3
20°-30°	1954.4	9.2
30°-40°	3373.5	15.9
40°-50°	5741.9	27.0
50°-60°	5682.3	26.7
60°-70°	2593.5	12.2
70°-80°	333.1	1.6
80°-90°	37.5	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°	21262.0	100.0
0°-180°	21262.0	100.0

Coefficient of Utilization

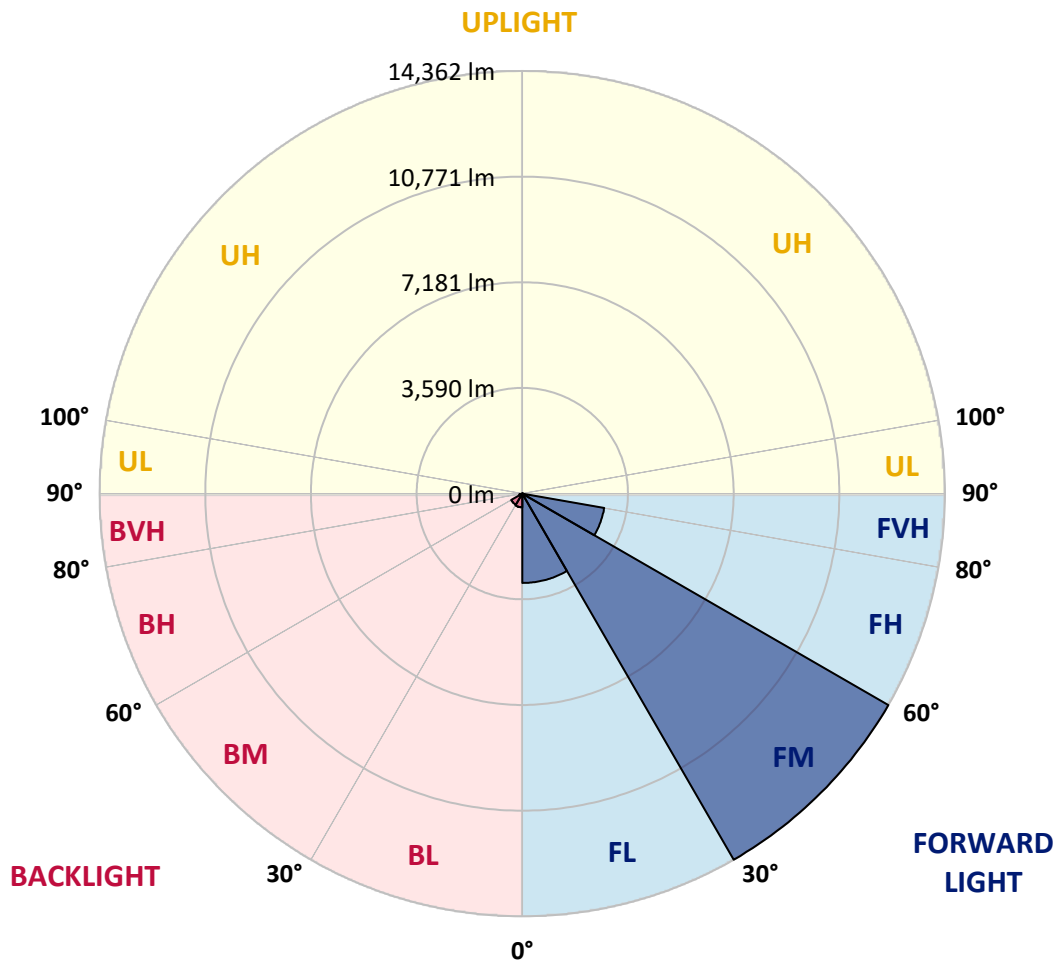


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3035.2	14.3			
FM (30°-60°)	14361.9	67.5			
FH (60°-80°)	2825.9	13.3			G2/5000
FVH (80°-90°)	33.5	0.2			G1/100
BL (0°-30°)	465.0	2.2	B1/500		
BM (30°-60°)	435.7	2.0	B1/1000		
BH (60°-80°)	100.7	0.5	B0/110		G0/110
BVH (80°-90°)	4.0	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°	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8
2.5°	6003.4	5961.8	5904.4	5859.9	5755.2	5604.6	5445.4	5445.4	5291.9	5078.1	4860.1
5°	6924.3	6897.1	6841.1	6726.4	6608.7	6397.9	6078.0	6022.0	5748.0	5360.7	4953.3
7.5°	7298.7	7311.6	7314.5	7284.4	7228.4	7020.4	6703.4	6664.7	6227.2	5707.9	5075.3
10°	6940.1	7003.2	7064.9	7189.7	7366.2	7416.4	7237.0	7196.9	6766.5	6059.3	5207.2
12.5°	6406.5	6440.9	6475.3	6671.9	7026.2	7432.1	7620.1	7618.6	7254.3	6409.3	5375.1
15°	6158.3	6188.4	6191.3	6278.8	6585.8	7176.8	7783.6	7805.1	7730.5	6841.1	5555.8
17.5°	6209.9	6234.3	6214.2	6235.8	6396.4	6895.6	7764.9	7836.7	8116.4	7255.7	5719.3
20°	6547.1	6594.4	6516.9	6456.7	6505.5	6821.0	7701.8	7802.2	8389.0	7660.2	5868.5
22.5°	7152.4	7178.2	7080.7	6915.7	6829.6	6977.4	7684.6	7783.6	8621.3	7991.6	5954.6
25°	7825.2	7816.6	7709.0	7523.9	7343.2	7293.0	7797.9	7886.9	8813.6	8290.0	5980.4
27.5°	8498.0	8523.8	8343.0	8113.5	7896.9	7766.4	8051.8	8117.8	9030.2	8629.9	6012.0
30°	9279.8	9238.2	9060.3	8797.8	8549.6	8367.4	8460.7	8479.3	9328.5	9080.4	6095.2
32.5°	10296.8	10182.1	9982.7	9523.6	9345.8	9037.3	9060.3	9083.2	9691.5	9526.5	6195.6
35°	11676.8	11671.1	11280.9	10662.6	10229.4	9846.4	9746.0	9764.6	10240.9	10189.2	6417.9
37.5°	13338.0	13360.9	12916.2	12293.7	11496.1	10887.8	10681.3	10684.1	11075.8	11104.5	6756.5
40°	14690.7	14751.0	14485.6	14065.3	13277.7	12326.6	11979.5	11947.9	12249.2	12213.3	7239.9
42.5°	15273.1	15329.1	15428.0	15574.4	15141.1	14356.5	13537.4	13580.4	13672.2	13421.2	7782.2
45°	14987.6	15076.6	15465.3	16369.1	16776.5	16512.5	15535.6	15385.0	14996.3	14733.7	8327.3
47.5°	13798.4	14015.1	14664.9	16169.7	17595.6	18487.8	17790.7	17591.3	16321.7	15692.0	8674.4
50°	11843.2	11856.1	12761.3	14685.0	17171.0	19734.4	20093.0	19943.8	17556.8	16229.9	8849.4
52.5°	8585.5	8868.1	9697.2	11925.0	15331.9	19545.0	21560.5	21498.8	18830.7	16505.3	9101.9
54°	6527.0	6581.5	7318.8	9529.4	13218.9	18505.0	21650.9	21665.2	19463.3	16671.7	9251.1
55°	5350.7	5220.1	5994.8	8117.8	11777.2	17585.5	21355.4	21424.2	19747.3	16757.8	9361.5
57.5°	2536.2	2537.6	3130.1	4282.0	7376.2	13655.0	19549.4	19793.2	19778.9	16905.6	9701.5
60°	1283.9	1292.5	1423.0	1976.7	3643.6	9077.5	16163.9	16744.9	18256.9	16927.1	9813.4
62.5°	898.0	888.0	866.4	951.1	1533.5	4613.3	12034.0	12539.0	15511.2	16108.0	9457.7
65°	768.9	747.4	687.1	674.2	774.6	1837.6	7495.3	8318.7	11843.2	13947.6	8444.9
67.5°	657.0	648.4	593.9	560.9	548.0	800.5	3867.4	4300.6	8094.9	10025.7	6396.4
70°	558.0	553.7	520.7	479.1	443.3	479.1	1434.5	1777.3	4511.5	5398.0	3018.2
72.5°	453.3	457.6	463.3	410.3	373.0	340.0	612.5	712.9	1887.8	1929.4	1055.8
75°	397.4	393.1	393.1	357.2	311.3	252.5	337.1	362.9	578.1	536.5	245.3
77.5°	279.7	269.7	315.6	294.1	259.6	179.3	192.2	203.7	239.6	205.1	114.8
80°	193.7	193.7	202.3	263.9	233.8	130.5	117.6	126.2	142.0	121.9	66.0
82.5°	109.0	111.9	132.0	140.6	136.3	87.5	77.5	78.9	94.7	83.2	41.6
85°	12.9	21.5	76.0	74.6	55.9	38.7	43.0	44.5	58.8	51.6	24.4
87.5°	1.4	2.9	15.8	20.1	14.3	15.8	15.8	15.8	20.1	23.0	17.2
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°	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8
2.5°	4742.5	4633.4	4373.8	4072.5	3880.3	3567.6	3303.7	3112.9	3065.5	2973.7	3001.0
5°	4736.7	4510.1	3980.7	3421.3	2824.5	2379.8	2048.5	1787.4	1672.6	1596.6	1543.5
7.5°	4739.6	4385.3	3536.0	2645.2	1932.3	1496.2	1189.2	1030.0	923.8	879.3	885.1
10°	4748.2	4244.7	3019.6	1959.5	1304.0	966.9	778.9	702.9	667.0	661.3	659.9
12.5°	4768.3	4091.2	2526.2	1454.6	912.3	702.9	631.2	605.4	593.9	593.9	589.6
15°	4789.8	3921.9	2115.9	1081.6	702.9	603.9	570.9	558.0	550.8	550.8	549.4
17.5°	4789.8	3726.8	1732.9	839.2	605.4	555.2	529.3	512.1	506.4	506.4	504.9
20°	4759.7	3500.2	1392.9	675.6	549.4	509.2	483.4	464.8	457.6	454.7	453.3
22.5°	4654.9	3197.5	1108.9	581.0	503.5	469.1	436.1	414.6	408.8	406.0	407.4
25°	4468.5	2856.1	877.9	510.7	461.9	420.3	391.6	375.8	370.1	370.1	371.5
27.5°	4276.2	2498.9	695.7	457.6	411.7	374.4	351.5	341.4	340.0	344.3	345.7
30°	4098.4	2140.3	563.8	414.6	367.2	335.7	319.9	317.0	317.0	318.5	319.9
32.5°	3900.4	1826.1	472.0	377.3	331.4	304.1	295.5	295.5	298.4	298.4	301.2
35°	3775.6	1556.4	414.6	341.4	304.1	281.2	275.4	276.9	281.2	286.9	289.8
37.5°	3708.2	1341.3	377.3	312.7	278.3	262.5	256.8	259.6	269.7	279.7	281.2
40°	3713.9	1179.2	347.1	288.3	258.2	241.0	236.7	245.3	255.3	265.4	266.8
42.5°	3777.0	1058.7	318.5	259.6	241.0	216.6	215.2	223.8	228.1	238.1	239.6
45°	3851.6	971.2	288.3	229.5	209.4	187.9	189.4	196.5	202.3	218.0	220.9
47.5°	3874.6	910.9	253.9	195.1	172.1	165.0	166.4	170.7	182.2	196.5	198.0
50°	3900.4	873.6	220.9	165.0	146.3	144.9	146.3	149.2	156.4	162.1	160.7
52.5°	4010.9	872.2	193.7	143.4	124.8	127.7	129.1	127.7	121.9	113.3	110.5
54°	4114.1	876.5	180.7	133.4	114.8	119.1	117.6	110.5	96.1	87.5	83.2
55°	4197.3	880.8	173.6	126.2	109.0	110.5	111.9	97.5	78.9	70.3	67.4
57.5°	4360.9	870.7	156.4	110.5	96.1	90.4	88.9	64.6	43.0	37.3	34.4
60°	4279.1	786.1	142.0	94.7	81.8	73.2	60.2	35.9	21.5	15.8	15.8
62.5°	3957.8	667.0	126.2	77.5	67.4	55.9	31.6	20.1	10.0	5.7	4.3
65°	3540.3	560.9	113.3	61.7	53.1	35.9	17.2	12.9	4.3	0.0	0.0
67.5°	2632.3	416.0	96.1	48.8	40.2	23.0	11.5	7.2	1.4	0.0	0.0
70°	1219.3	253.9	81.8	37.3	28.7	17.2	8.6	4.3	0.0	0.0	0.0
72.5°	350.0	159.2	67.4	27.3	20.1	14.3	7.2	2.9	1.4	0.0	0.0
75°	121.9	127.7	50.2	20.1	15.8	10.0	5.7	2.9	1.4	0.0	0.0
77.5°	73.2	103.3	31.6	17.2	12.9	8.6	5.7	2.9	1.4	1.4	0.0
80°	41.6	68.9	20.1	14.3	11.5	7.2	4.3	2.9	1.4	1.4	0.0
82.5°	23.0	33.0	15.8	12.9	10.0	7.2	4.3	2.9	1.4	1.4	1.4
85°	18.6	17.2	12.9	11.5	8.6	5.7	4.3	1.4	0.0	0.0	0.0
87.5°	14.3	11.5	11.5	11.5	8.6	5.7	4.3	1.4	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)