

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: P452310

Luminaire Tested: **GALN-SA3B-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452310
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-SA3B-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 12675 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

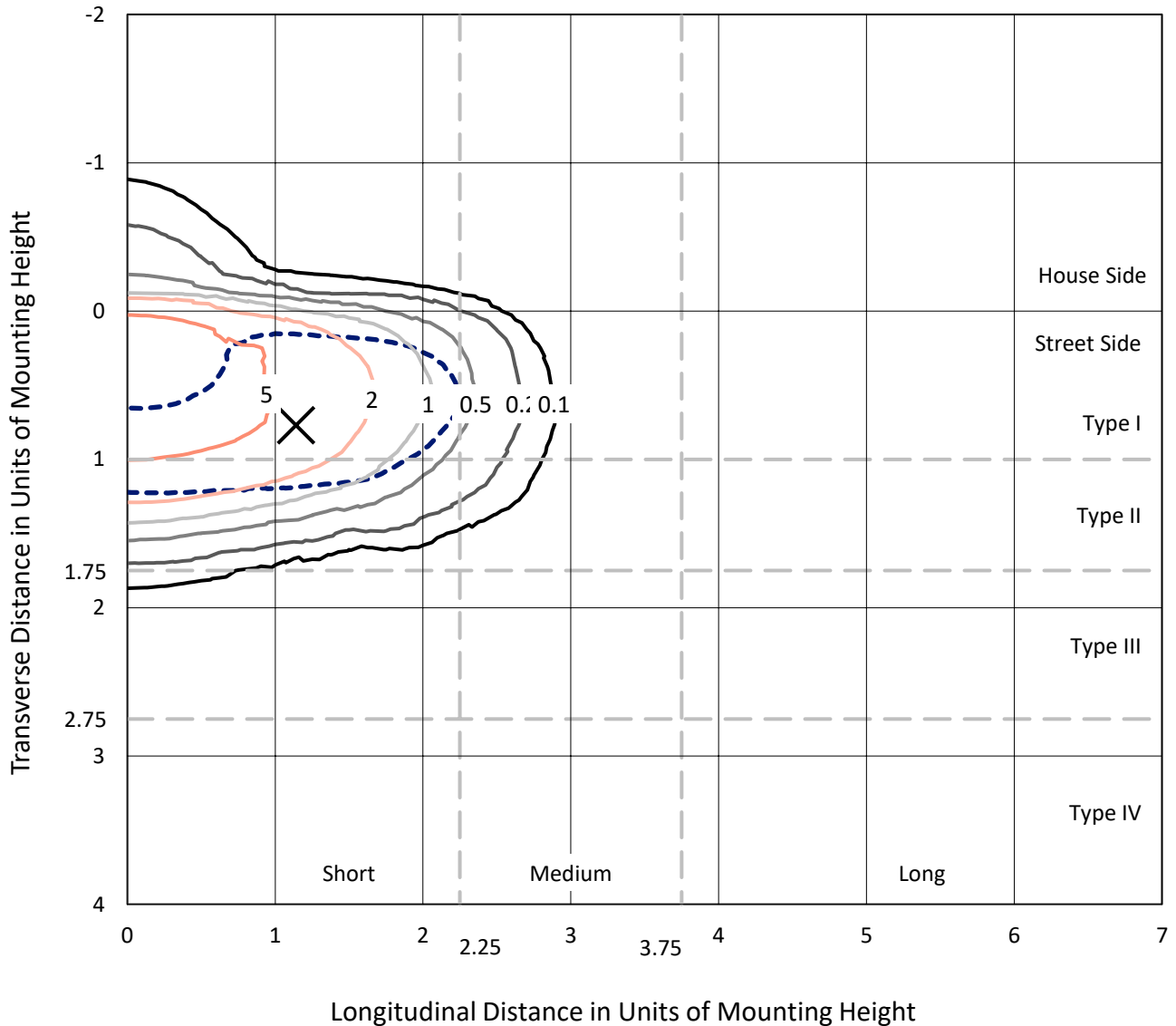
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

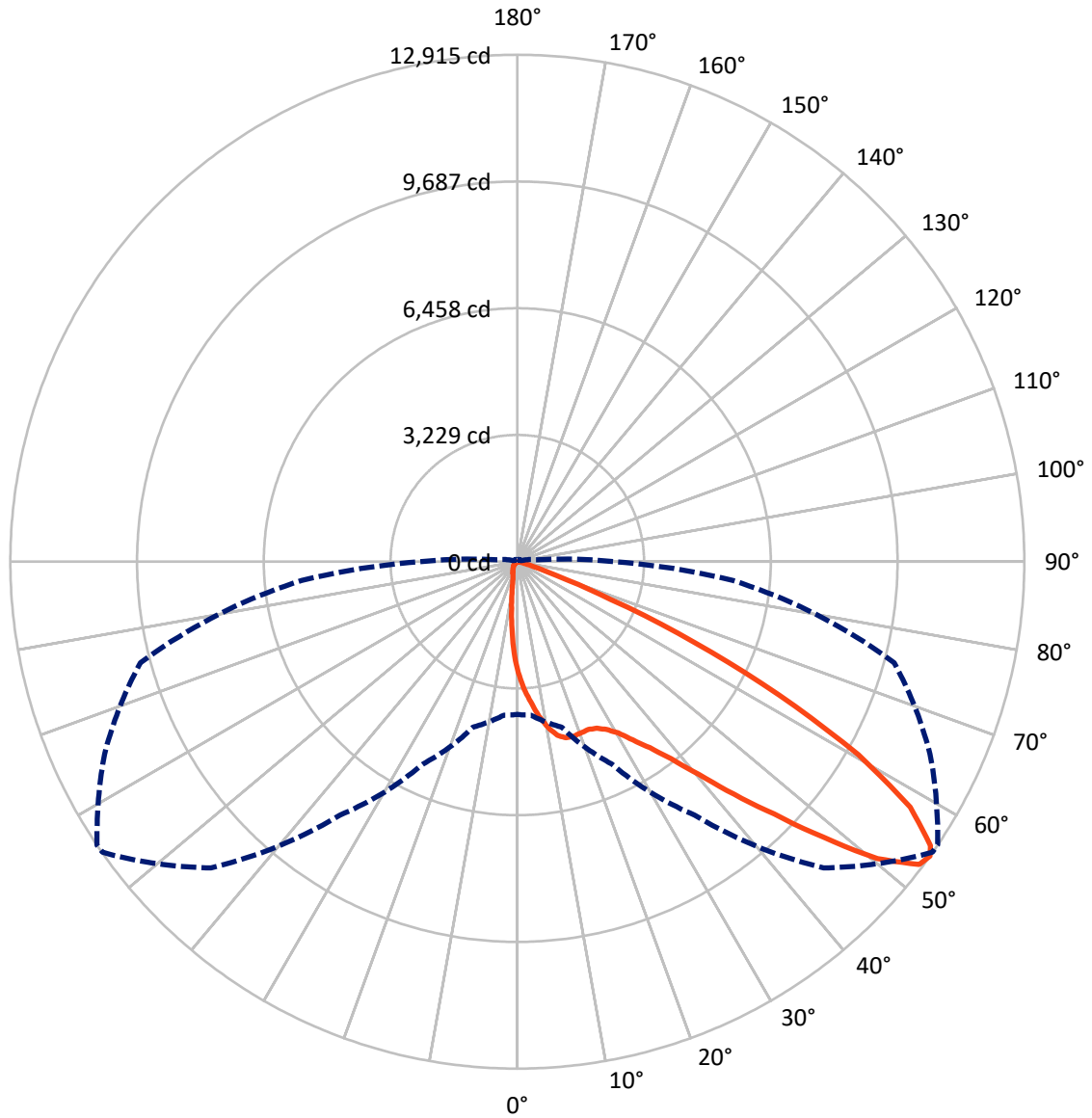
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	599.4	0.0	599.4
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	12075.6	0.0	12075.6
	% Fixture	95.3	0.0	95.3
Total	Lumens	12675.0	0.0	12675.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.8	2.0
10°-20°	672.7	5.3
20°-30°	1165.1	9.2
30°-40°	2011.1	15.9
40°-50°	3422.9	27.0
50°-60°	3387.4	26.7
60°-70°	1546.1	12.2
70°-80°	198.6	1.6
80°-90°	22.4	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°	12675.0	100.0
0°-180°	12675.0	100.0

Coefficient of Utilization



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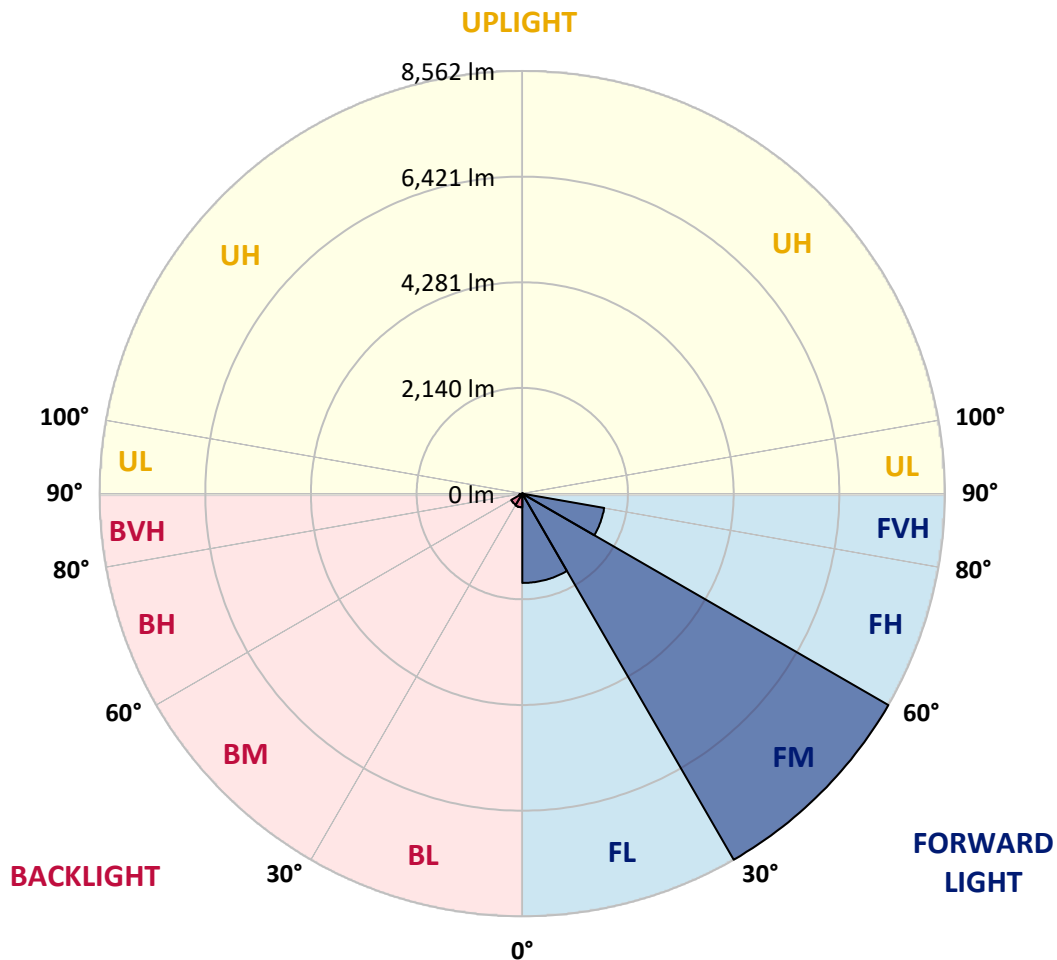
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1809.4	14.3			
FM (30°-60°)	8561.6	67.5			
FH (60°-80°)	1684.6	13.3			G1/1800
FVH (80°-90°)	20.0	0.2			G1/100
BL (0°-30°)	277.2	2.2	B1/500		
BM (30°-60°)	259.8	2.0	B1/1000		
BH (60°-80°)	60.0	0.5	B0/110		G0/110
BVH (80°-90°)	2.4	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0
2.5°	3578.8	3554.0	3519.8	3493.3	3430.9	3341.1	3246.2	3246.2	3154.7	3027.2	2897.3
5°	4127.8	4111.6	4078.2	4009.8	3939.7	3814.0	3623.3	3589.9	3426.6	3195.7	2952.8
7.5°	4351.0	4358.7	4360.4	4342.5	4309.1	4185.1	3996.1	3973.0	3712.2	3402.7	3025.5
10°	4137.2	4174.9	4211.6	4286.0	4391.2	4421.1	4314.2	4290.3	4033.8	3612.2	3104.2
12.5°	3819.1	3839.6	3860.2	3977.3	4188.5	4430.6	4542.6	4541.7	4324.5	3820.8	3204.3
15°	3671.2	3689.1	3690.8	3743.0	3926.0	4278.3	4640.1	4652.9	4608.4	4078.2	3312.0
17.5°	3702.0	3716.5	3704.5	3717.4	3813.1	4110.7	4628.9	4671.7	4838.5	4325.4	3409.5
20°	3902.9	3931.1	3885.0	3849.0	3878.1	4066.3	4591.3	4651.2	5000.9	4566.5	3498.4
22.5°	4263.8	4279.2	4221.0	4122.7	4071.4	4159.5	4581.1	4640.1	5139.5	4764.1	3549.7
25°	4664.9	4659.7	4595.6	4485.3	4377.5	4347.6	4648.6	4701.6	5254.1	4941.9	3565.1
27.5°	5065.9	5081.3	4973.6	4836.7	4707.6	4629.8	4800.0	4839.3	5383.2	5144.6	3583.9
30°	5532.0	5507.2	5401.1	5244.7	5096.7	4988.1	5043.7	5054.8	5561.1	5413.1	3633.5
32.5°	6138.3	6069.9	5951.0	5677.4	5571.3	5387.5	5401.1	5414.8	5777.4	5679.1	3693.4
35°	6960.9	6957.5	6724.9	6356.4	6098.1	5869.8	5809.9	5821.0	6104.9	6074.2	3826.0
37.5°	7951.2	7964.9	7699.8	7328.7	6853.2	6490.6	6367.5	6369.2	6602.6	6619.7	4027.8
40°	8757.6	8793.5	8635.3	8384.8	7915.3	7348.3	7141.4	7122.6	7302.2	7280.8	4316.0
42.5°	9104.8	9138.2	9197.2	9284.4	9026.1	8558.4	8070.1	8095.7	8150.5	8000.8	4639.2
45°	8934.6	8987.7	9219.4	9758.2	10001.0	9843.7	9261.3	9171.5	8939.8	8783.3	4964.2
47.5°	8225.7	8354.9	8742.2	9639.3	10489.3	11021.2	10605.6	10486.7	9729.9	9354.5	5171.1
50°	7060.1	7067.8	7607.4	8754.2	10236.2	11764.3	11978.1	11889.2	10466.2	9675.2	5275.4
52.5°	5118.1	5286.6	5780.8	7108.9	9139.9	11651.5	12853.0	12816.2	11225.6	9839.4	5425.9
54°	3890.9	3923.4	4363.0	5680.8	7880.2	11031.5	12906.8	12915.4	11602.7	9938.6	5514.9
55°	3189.7	3111.9	3573.7	4839.3	7020.8	10483.3	12730.7	12771.7	11772.0	9989.9	5580.7
57.5°	1511.9	1512.8	1865.9	2552.6	4397.2	8140.2	11654.0	11799.4	11790.9	10078.0	5783.4
60°	765.4	770.5	848.3	1178.4	2172.1	5411.4	9635.9	9982.2	10883.5	10090.8	5850.1
62.5°	535.3	529.3	516.5	567.0	914.2	2750.2	7173.9	7474.9	9246.8	9602.5	5638.0
65°	458.4	445.5	409.6	401.9	461.8	1095.5	4468.2	4959.0	7060.1	8314.7	5034.3
67.5°	391.7	386.5	354.0	334.4	326.7	477.2	2305.5	2563.8	4825.6	5976.7	3813.1
70°	332.7	330.1	310.4	285.6	264.2	285.6	855.2	1059.5	2689.5	3217.9	1799.2
72.5°	270.2	272.8	276.2	244.6	222.3	202.7	365.2	425.0	1125.4	1150.2	629.4
75°	236.9	234.3	234.3	212.9	185.6	150.5	201.0	216.4	344.6	319.8	146.2
77.5°	166.8	160.8	188.1	175.3	154.8	106.9	114.6	121.4	142.8	122.3	68.4
80°	115.4	115.4	120.6	157.3	139.4	77.8	70.1	75.3	84.7	72.7	39.3
82.5°	65.0	66.7	78.7	83.8	81.2	52.2	46.2	47.0	56.4	49.6	24.8
85°	7.7	12.8	45.3	44.5	33.4	23.1	25.7	26.5	35.1	30.8	14.5
87.5°	0.9	1.7	9.4	12.0	8.6	9.4	9.4	9.4	12.0	13.7	10.3
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°	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0
2.5°	2827.1	2762.1	2607.4	2427.8	2313.2	2126.8	1969.4	1855.7	1827.5	1772.7	1789.0
5°	2823.7	2688.6	2373.1	2039.5	1683.8	1418.7	1221.2	1065.5	997.1	951.8	920.1
7.5°	2825.4	2614.2	2108.0	1576.9	1151.9	891.9	708.9	614.0	550.7	524.2	527.6
10°	2830.6	2530.4	1800.1	1168.1	777.3	576.4	464.3	419.0	397.6	394.2	393.4
12.5°	2842.5	2438.9	1505.9	867.1	543.9	419.0	376.3	360.9	354.0	354.0	351.5
15°	2855.4	2338.0	1261.4	644.8	419.0	360.0	340.4	332.7	328.4	328.4	327.5
17.5°	2855.4	2221.7	1033.0	500.3	360.9	330.9	315.6	305.3	301.9	301.9	301.0
20°	2837.4	2086.6	830.4	402.8	327.5	303.6	288.2	277.1	272.8	271.1	270.2
22.5°	2775.0	1906.1	661.0	346.3	300.2	279.6	260.0	247.1	243.7	242.0	242.9
25°	2663.8	1702.6	523.4	304.4	275.4	250.6	233.5	224.1	220.6	220.6	221.5
27.5°	2549.2	1489.7	414.7	272.8	245.4	223.2	209.5	203.5	202.7	205.2	206.1
30°	2443.2	1275.9	336.1	247.1	218.9	200.1	190.7	189.0	189.0	189.8	190.7
32.5°	2325.2	1088.6	281.3	224.9	197.5	181.3	176.2	176.2	177.9	177.9	179.6
35°	2250.8	927.8	247.1	203.5	181.3	167.6	164.2	165.0	167.6	171.0	172.7
37.5°	2210.6	799.6	224.9	186.4	165.9	156.5	153.1	154.8	160.8	166.8	167.6
40°	2214.0	702.9	206.9	171.9	153.9	143.7	141.1	146.2	152.2	158.2	159.1
42.5°	2251.6	631.1	189.8	154.8	143.7	129.1	128.3	133.4	136.0	142.0	142.8
45°	2296.1	578.9	171.9	136.8	124.9	112.0	112.9	117.2	120.6	130.0	131.7
47.5°	2309.8	543.0	151.4	116.3	102.6	98.3	99.2	101.8	108.6	117.2	118.0
50°	2325.2	520.8	131.7	98.3	87.2	86.4	87.2	88.9	93.2	96.6	95.8
52.5°	2391.0	519.9	115.4	85.5	74.4	76.1	77.0	76.1	72.7	67.6	65.8
54°	2452.6	522.5	107.7	79.5	68.4	71.0	70.1	65.8	57.3	52.2	49.6
55°	2502.2	525.1	103.5	75.3	65.0	65.8	66.7	58.2	47.0	41.9	40.2
57.5°	2599.7	519.1	93.2	65.8	57.3	53.9	53.0	38.5	25.7	22.2	20.5
60°	2550.9	468.6	84.7	56.4	48.7	43.6	35.9	21.4	12.8	9.4	9.4
62.5°	2359.4	397.6	75.3	46.2	40.2	33.4	18.8	12.0	6.0	3.4	2.6
65°	2110.5	334.4	67.6	36.8	31.6	21.4	10.3	7.7	2.6	0.0	0.0
67.5°	1569.2	248.0	57.3	29.1	23.9	13.7	6.8	4.3	0.9	0.0	0.0
70°	726.9	151.4	48.7	22.2	17.1	10.3	5.1	2.6	0.0	0.0	0.0
72.5°	208.7	94.9	40.2	16.2	12.0	8.6	4.3	1.7	0.9	0.0	0.0
75°	72.7	76.1	29.9	12.0	9.4	6.0	3.4	1.7	0.9	0.0	0.0
77.5°	43.6	61.6	18.8	10.3	7.7	5.1	3.4	1.7	0.9	0.9	0.0
80°	24.8	41.0	12.0	8.6	6.8	4.3	2.6	1.7	0.9	0.9	0.0
82.5°	13.7	19.7	9.4	7.7	6.0	4.3	2.6	1.7	0.9	0.9	0.9
85°	11.1	10.3	7.7	6.8	5.1	3.4	2.6	0.9	0.0	0.0	0.0
87.5°	8.6	6.8	6.8	6.8	5.1	3.4	2.6	0.9	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)