

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: P300763

Luminaire Tested: **GLNA-AF-08-LED-E1-AFL-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-08-LED-E1-AFL-7030-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22606.6 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 257
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: 25 FT

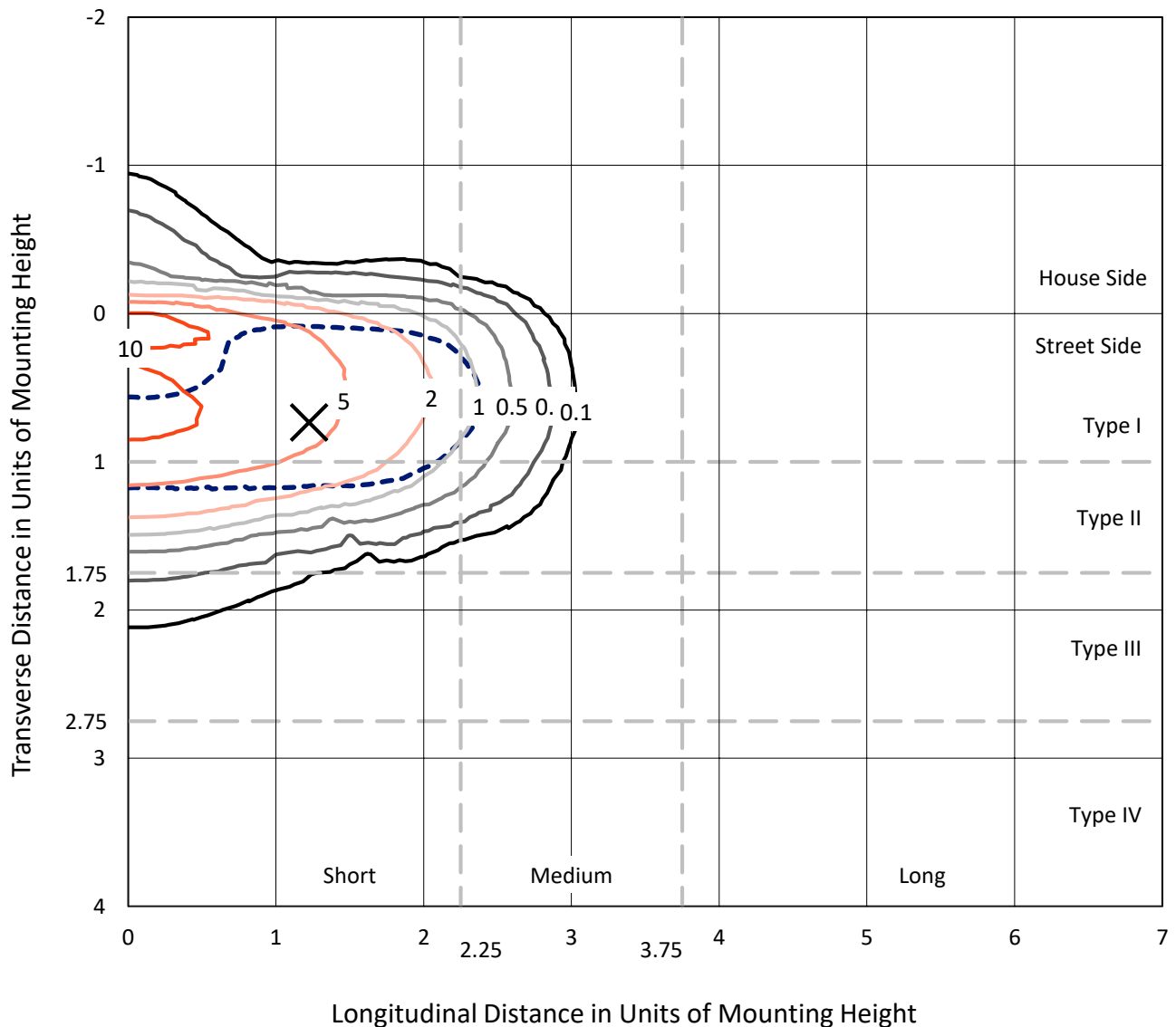


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

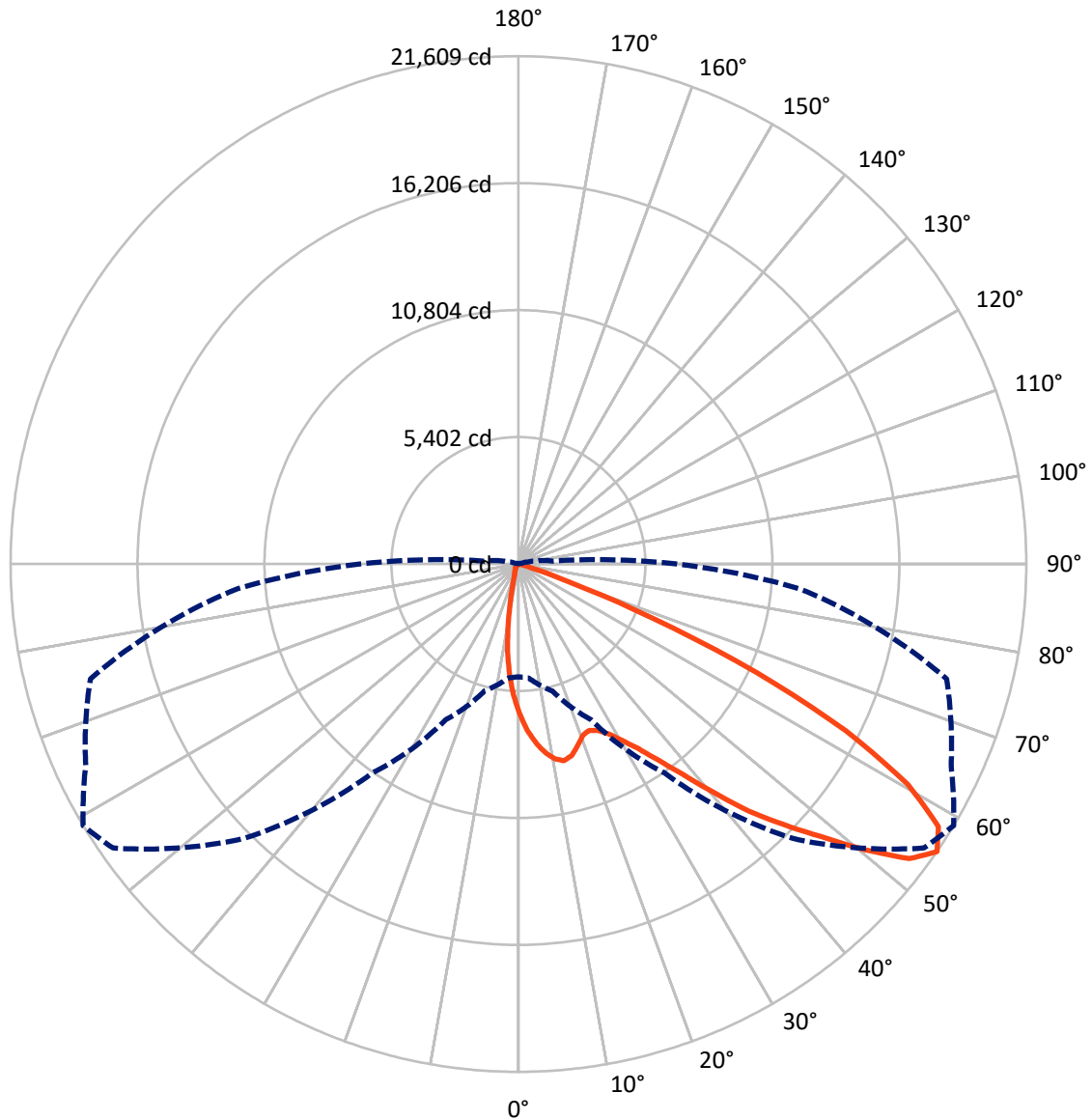


Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1262.7	0.0	1262.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	21343.9	0.0	21343.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	22606.6	0.0	22606.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.0	2.4
10°-20°	1276.2	5.6
20°-30°	2171.6	9.6
30°-40°	3734.7	16.5
40°-50°	5766.0	25.5
50°-60°	5796.7	25.6
60°-70°	2972.6	13.1
70°-80°	322.1	1.4
80°-90°	33.7	0.1
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°	22606.6	100.0
0°-180°	22606.6	100.0



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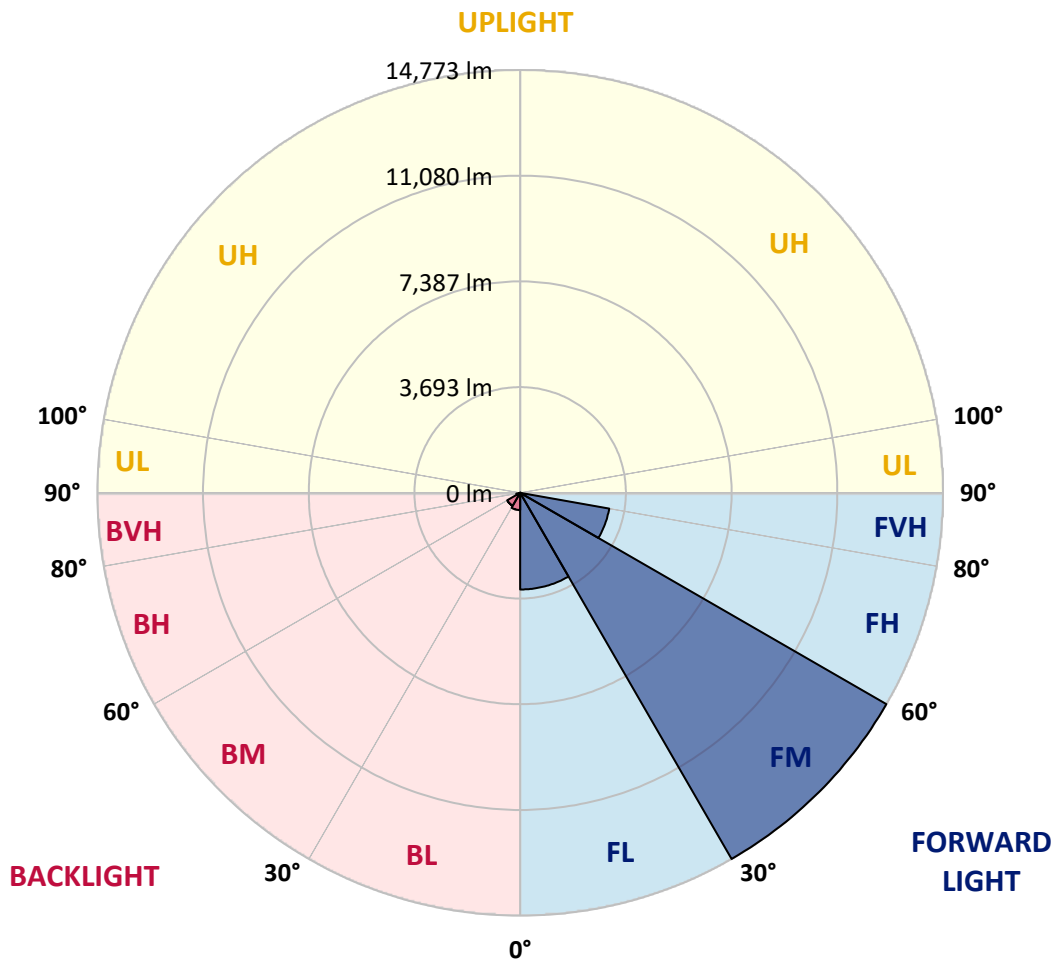
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3378.2	14.9			
FM	(30°-60°)	14773.3	65.3			
FH	(60°-80°)	3159.4	14.0			G2/5000
FVH	(80°-90°)	33.0	0.1			G1/100
BL	(0°-30°)	602.7	2.7	B2/1000		
BM	(30°-60°)	524.0	2.3	B1/1000		
BH	(60°-80°)	135.3	0.6	B1/500		G1/500
BVH	(80°-90°)	0.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6363.7	6363.7	6363.7	6363.7	6363.7	6363.7	6363.7	6363.7	6363.7	6363.7	6363.7
2.5°	7529.7	7449.6	7425.6	7409.6	7336.2	7244.2	7118.8	7060.1	6940.0	6746.6	6509.1
5°	8219.4	8204.7	8151.4	8122.0	8043.3	7912.6	7712.5	7616.4	7425.6	7100.1	6674.5
7.5°	7917.9	8010.0	8083.3	8206.1	8360.8	8355.5	8187.4	8087.3	7873.9	7444.3	6858.6
10°	6753.2	6827.9	6948.0	7226.8	7795.2	8296.8	8494.2	8422.2	8251.4	7760.5	7036.1
12.5°	6525.1	6517.1	6538.4	6619.8	6917.3	7632.4	8442.2	8587.6	8552.9	8050.0	7204.2
15°	6646.5	6637.2	6634.5	6662.5	6734.6	7036.1	8051.3	8468.9	8737.0	8318.1	7346.9
17.5°	6986.7	6946.7	6925.3	6902.7	6881.3	6956.0	7581.7	8136.7	8765.1	8552.9	7465.6
20°	7569.7	7503.0	7424.3	7296.2	7176.1	7138.8	7384.3	7795.2	8665.0	8731.7	7543.0
22.5°	8302.1	8216.7	8080.7	7847.2	7603.1	7461.6	7481.7	7687.1	8515.6	8926.5	7579.0
25°	9125.3	9015.9	8834.4	8510.2	8151.4	7900.6	7769.8	7841.9	8447.5	9154.6	7620.4
27.5°	10007.1	9885.7	9648.2	9206.6	8799.7	8460.9	8194.1	8184.7	8563.6	9453.5	7687.1
30°	10880.9	10862.3	10552.8	10085.8	9546.8	9134.6	8750.4	8701.0	8887.8	9867.0	7819.2
32.5°	12047.0	11906.9	11528.0	11047.7	10426.0	9931.1	9476.1	9361.4	9385.4	10348.6	8023.3
35°	13517.1	13363.7	12830.1	12167.0	11472.0	10887.6	10384.7	10228.6	10169.9	11137.1	8367.5
37.5°	14467.0	14464.4	14129.5	13454.4	12708.7	12064.3	11517.3	11334.5	11215.8	12089.6	8901.1
40°	14492.4	14555.1	14599.1	14592.4	14061.5	13467.8	12982.2	12756.7	12480.5	13362.4	9590.9
42.5°	13714.6	13876.0	14264.2	14923.3	15238.1	15002.0	14592.4	14371.0	13960.1	14724.5	10431.4
45°	12663.3	12775.4	13454.4	14668.5	15875.8	16522.9	16210.7	15814.5	15272.8	16145.3	11185.1
47.5°	12192.4	12212.4	12651.3	13984.1	15923.9	17768.9	17958.4	17314.0	16465.5	17290.0	11774.8
50°	10784.9	10820.9	11426.6	12798.1	15360.9	18357.3	19714.0	19103.0	17766.3	18171.8	11989.6
52.5°	8128.7	8179.4	8947.8	10848.9	13813.3	18106.5	20970.8	20822.7	19191.1	18602.7	12001.6
55°	4796.1	4862.8	5596.6	7302.9	10864.9	16510.9	21064.2	21608.5	20315.7	18857.6	11982.9
57.5°	2240.0	2286.7	2706.9	3762.2	6757.2	13048.9	19658.0	21069.5	20936.1	18992.3	12115.0
60°	1190.0	1203.4	1304.8	1628.9	3053.8	8274.1	16913.8	19025.6	20370.4	19179.1	12276.4
62.5°	909.9	913.9	908.5	947.2	1283.4	3672.8	12784.7	15641.0	18093.1	19039.0	12097.7
65°	788.5	795.1	757.8	748.4	823.1	1310.1	7595.1	11149.1	14217.5	17148.6	10879.6
67.5°	707.1	709.7	664.4	625.7	639.0	708.4	2996.4	6103.5	9410.8	12569.9	7885.9
70°	651.0	648.4	599.0	537.6	520.3	484.3	952.5	2237.3	4497.3	6374.3	3667.5
72.5°	576.3	577.7	553.7	473.6	432.2	338.9	441.6	652.4	1342.1	1737.0	859.2
75°	511.0	504.3	474.9	424.2	356.2	222.8	218.8	290.8	413.6	410.9	185.4
77.5°	369.5	362.9	372.2	348.2	273.5	144.1	109.4	140.1	168.1	162.8	52.0
80°	270.8	266.8	240.1	289.5	241.5	98.7	68.0	74.7	86.7	73.4	16.0
82.5°	185.4	184.1	169.4	160.1	137.4	60.0	42.7	46.7	56.0	41.4	8.0
85°	29.4	33.4	122.7	97.4	81.4	26.7	29.4	32.0	37.4	22.7	2.7
87.5°	0.0	0.0	57.4	50.7	16.0	10.7	17.3	18.7	18.7	12.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6363.7	6363.7	6363.7	6363.7	6363.7	6363.7	6363.7	6363.7	6363.7	6363.7	6363.7
2.5°	6387.7	6254.3	6007.5	5752.7	5516.5	5235.0	5041.6	4896.2	4728.1	4682.7	4781.4
5°	6431.7	6179.6	5648.6	5070.9	4527.9	3926.3	3466.0	3101.8	2772.3	2660.2	2761.6
7.5°	6501.1	6126.2	5260.4	4309.2	3364.6	2425.4	1782.4	1359.5	1090.0	1009.9	1052.6
10°	6570.5	6048.8	4810.8	3407.3	2115.9	1180.7	768.4	613.7	556.3	544.3	551.0
12.5°	6627.8	5944.8	4262.5	2422.7	1131.3	632.4	503.0	477.6	469.6	469.6	472.3
15°	6662.5	5787.3	3612.8	1540.9	651.0	477.6	438.9	430.9	430.9	432.2	434.9
17.5°	6658.5	5587.2	2901.7	932.5	486.9	422.9	400.2	393.6	392.2	394.9	396.2
20°	6609.1	5325.7	2187.9	615.0	424.2	385.6	362.9	350.9	349.5	352.2	354.9
22.5°	6515.8	5002.9	1564.9	473.6	382.9	349.5	321.5	310.8	310.8	313.5	316.2
25°	6402.4	4608.0	1070.0	401.6	345.5	310.8	284.2	274.8	277.5	284.2	285.5
27.5°	6260.9	4163.7	727.1	344.2	300.2	272.2	252.1	245.5	252.1	261.5	264.2
30°	6139.5	3700.8	519.0	297.5	254.8	234.8	222.8	222.8	232.1	249.5	253.5
32.5°	6046.2	3252.5	400.2	262.8	221.5	204.1	197.4	204.1	218.8	236.1	240.1
35°	6034.2	2883.0	338.9	234.8	197.4	180.1	177.4	189.4	204.1	217.5	220.1
37.5°	6126.2	2541.5	305.5	212.1	176.1	160.1	157.4	172.1	186.8	202.8	206.8
40°	6301.0	2273.3	281.5	190.8	158.8	141.4	136.1	146.8	166.8	188.1	193.4
42.5°	6527.8	2051.9	254.8	169.4	141.4	117.4	110.7	122.7	144.1	166.8	173.4
45°	6743.9	1861.1	225.5	145.4	118.7	90.7	88.1	104.1	114.7	137.4	142.7
47.5°	6862.6	1693.0	200.1	118.7	92.1	73.4	73.4	77.4	88.1	114.7	120.1
50°	6822.6	1558.2	173.4	88.1	64.0	56.0	56.0	54.7	70.7	92.1	96.1
52.5°	6742.6	1480.9	149.4	68.0	44.0	40.0	36.0	40.0	49.4	58.7	60.0
55°	6730.6	1467.5	125.4	54.7	30.7	26.7	20.0	20.0	20.0	18.7	16.0
57.5°	6823.9	1488.9	105.4	44.0	22.7	17.3	10.7	0.0	0.0	0.0	0.0
60°	6920.0	1511.5	90.7	30.7	16.0	9.3	1.3	0.0	0.0	0.0	0.0
62.5°	6759.9	1460.8	76.0	18.7	12.0	4.0	0.0	0.0	0.0	0.0	0.0
65°	5938.1	1243.4	60.0	13.3	8.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4223.8	832.5	40.0	8.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	1927.8	348.2	25.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	412.2	108.1	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	84.0	78.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	26.7	124.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.0	89.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.7	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)