

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: P300630

Luminaire Tested: **GLNA-AF-06-LED-E1-AFL-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300630
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-06-LED-E1-AFL-7027-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23003.9 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

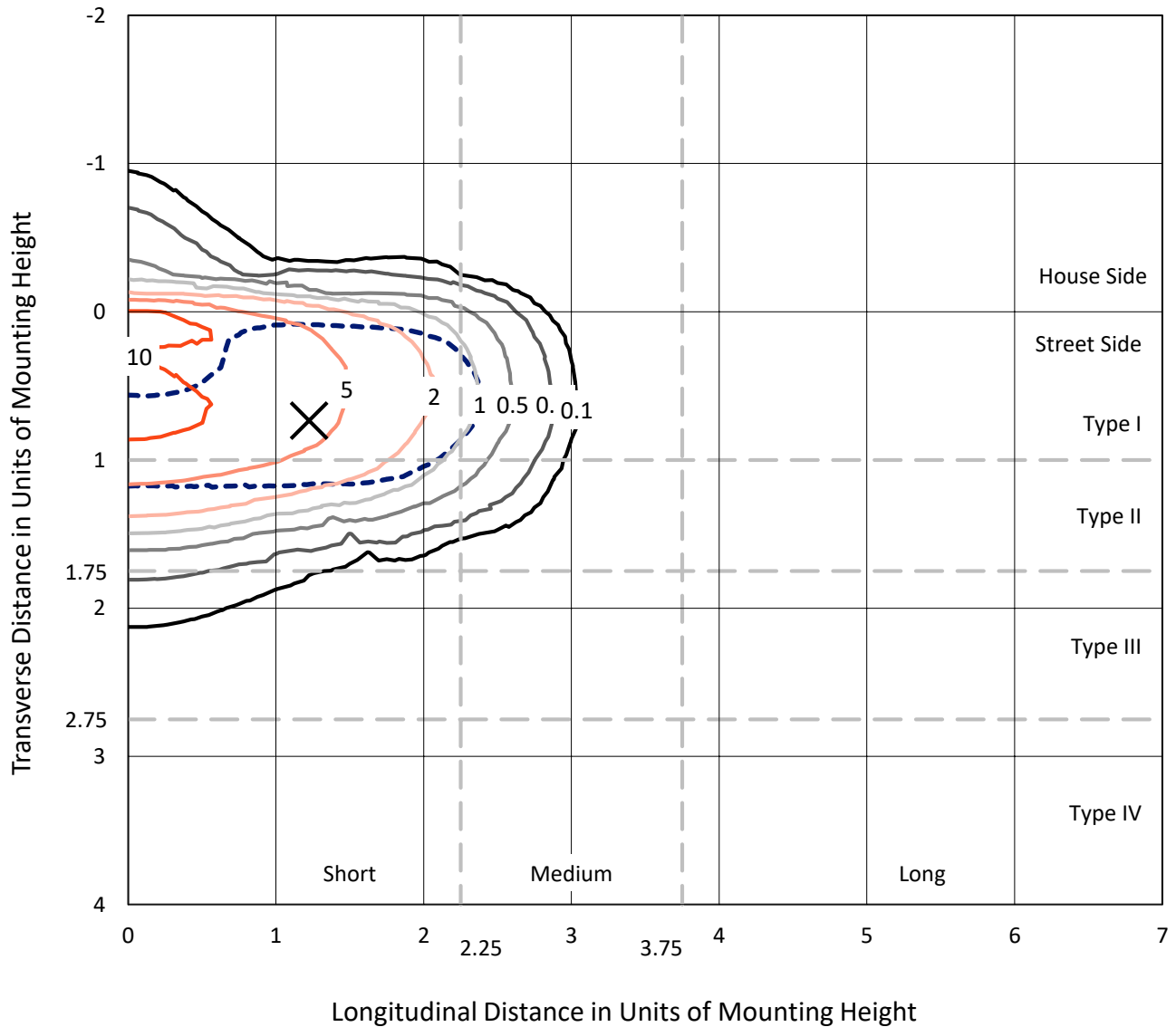
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

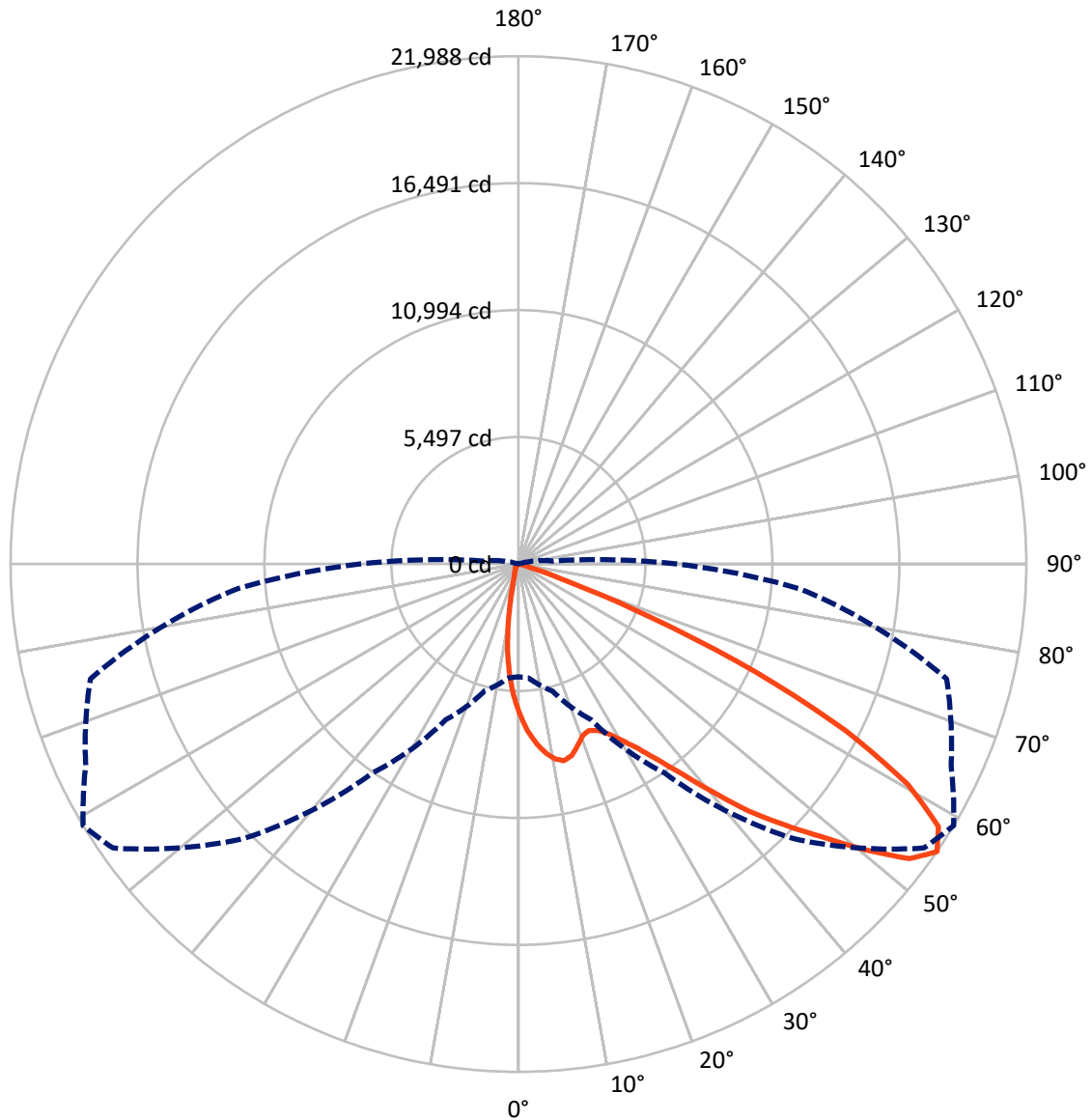
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	1284.9	0.0	1284.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	21719.0	0.0	21719.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	23003.9	0.0	23003.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.4	2.4
10°-20°	1298.6	5.6
20°-30°	2209.8	9.6
30°-40°	3800.4	16.5
40°-50°	5867.3	25.5
50°-60°	5898.5	25.6
60°-70°	3024.8	13.1
70°-80°	327.8	1.4
80°-90°	34.3	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°	23003.9	100.0
0°-180°	23003.9	100.0

Coefficient of Utilization



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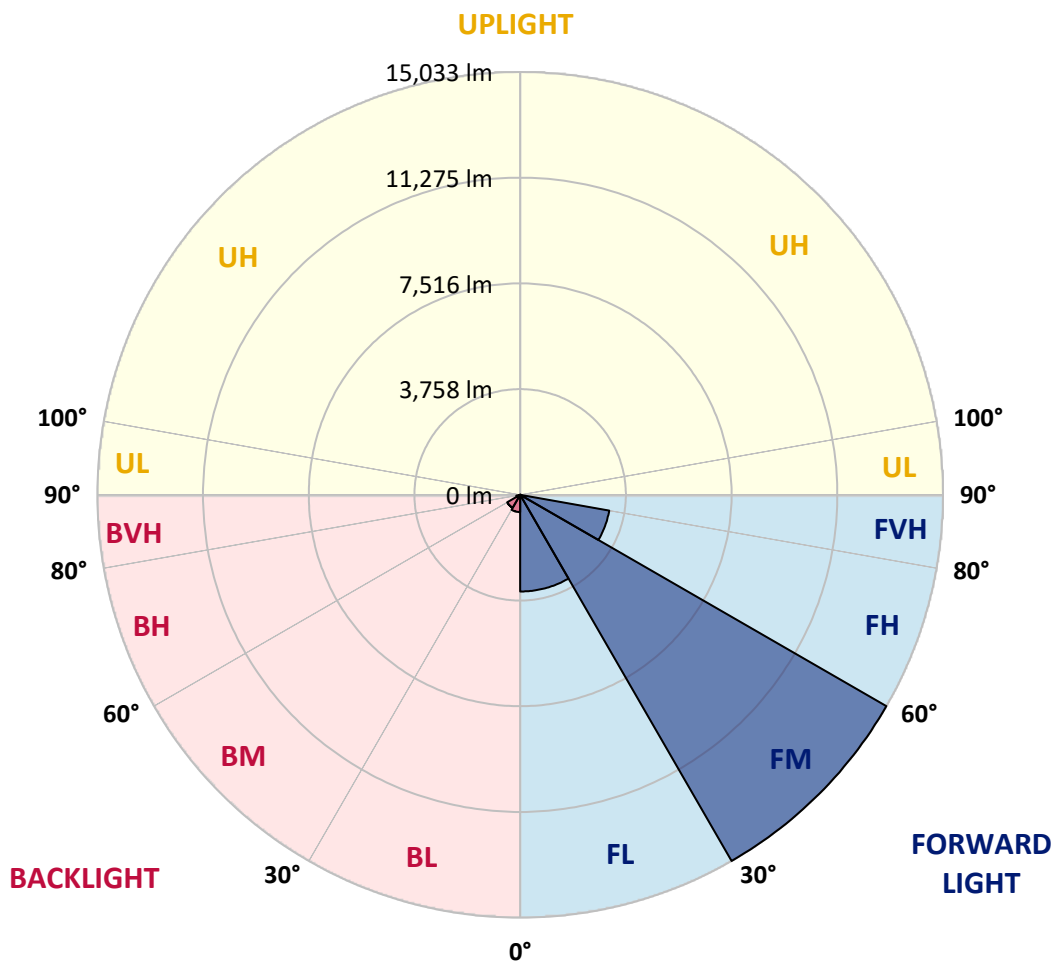
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3437.5	14.9			
FM (30°-60°)	15033.0	65.3			
FH (60°-80°)	3215.0	14.0			G2/5000
FVH (80°-90°)	33.6	0.1			G1/100
BL (0°-30°)	613.3	2.7	B2/1000		
BM (30°-60°)	533.3	2.3	B1/1000		
BH (60°-80°)	137.7	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°	6475.5	6475.5	6475.5	6475.5	6475.5	6475.5	6475.5	6475.5	6475.5	6475.5	6475.5
2.5°	7662.0	7580.6	7556.1	7539.9	7465.2	7371.5	7243.9	7184.2	7062.0	6865.1	6623.5
5°	8363.9	8349.0	8294.7	8264.8	8184.7	8051.6	7848.0	7750.3	7556.1	7224.9	6791.8
7.5°	8057.1	8150.7	8225.4	8350.3	8507.8	8502.4	8331.3	8229.5	8012.3	7575.1	6979.2
10°	6871.9	6948.0	7070.1	7353.9	7932.2	8442.6	8643.5	8570.2	8396.5	7896.9	7159.7
12.5°	6639.8	6631.6	6653.4	6736.2	7038.9	7766.6	8590.6	8738.6	8703.3	8191.5	7330.8
15°	6763.3	6753.8	6751.1	6779.6	6852.9	7159.7	8192.8	8617.7	8890.6	8464.3	7476.0
17.5°	7109.5	7068.8	7047.1	7024.0	7002.3	7078.3	7715.0	8279.7	8919.1	8703.3	7596.9
20°	7702.8	7634.9	7554.8	7424.5	7302.3	7264.3	7514.1	7932.2	8817.3	8885.2	7675.6
22.5°	8448.1	8361.2	8222.7	7985.1	7736.7	7592.8	7613.2	7822.2	8665.3	9083.4	7712.3
25°	9285.7	9174.3	8989.7	8659.8	8294.7	8039.4	7906.4	7979.7	8596.0	9315.5	7754.3
27.5°	10183.0	10059.5	9817.8	9368.5	8954.4	8609.6	8338.1	8328.6	8714.1	9619.6	7822.2
30°	11072.2	11053.2	10738.2	10263.1	9714.7	9295.2	8904.2	8854.0	9044.0	10040.5	7956.6
32.5°	12258.7	12116.2	11730.6	11241.9	10609.3	10105.6	9642.7	9526.0	9550.4	10530.5	8164.3
35°	13754.7	13598.6	13055.6	12380.9	11673.6	11079.0	10567.2	10408.4	10348.6	11332.9	8514.6
37.5°	14721.3	14718.6	14377.8	13690.9	12932.1	12276.4	11719.8	11533.8	11413.0	12302.1	9057.6
40°	14747.1	14810.9	14855.7	14848.9	14308.6	13704.5	13210.4	12980.9	12699.9	13597.3	9759.5
42.5°	13955.6	14119.9	14515.0	15185.6	15506.0	15265.7	14848.9	14623.6	14205.4	14983.3	10614.7
45°	12885.9	12999.9	13690.9	14926.3	16154.9	16813.3	16495.6	16092.4	15541.3	16429.1	11381.7
47.5°	12406.7	12427.0	12873.7	14229.9	16203.8	18081.3	18274.0	17618.3	16754.9	17593.9	11981.8
50°	10974.5	11011.1	11627.4	13023.0	15630.9	18679.9	20060.6	19438.8	18078.5	18491.2	12200.3
52.5°	8271.6	8323.2	9105.1	11039.6	14056.1	18424.7	21339.4	21188.7	19528.4	18929.7	12212.5
55°	4880.4	4948.3	5694.9	7431.2	11055.9	16801.1	21434.4	21988.3	20672.8	19189.0	12193.5
57.5°	2279.3	2326.8	2754.5	3828.3	6876.0	13278.2	20003.5	21439.8	21304.1	19326.1	12327.9
60°	1210.9	1224.5	1327.7	1657.6	3107.4	8419.5	17211.1	19360.1	20728.5	19516.2	12492.2
62.5°	925.9	929.9	924.5	963.9	1306.0	3737.3	13009.4	15916.0	18411.1	19373.6	12310.3
65°	802.3	809.1	771.1	761.6	837.6	1333.1	7728.6	11345.1	14467.4	17450.0	11070.8
67.5°	719.5	722.2	676.1	636.7	650.3	720.9	3049.1	6210.8	9576.2	12790.9	8024.5
70°	662.5	659.8	609.5	547.1	529.4	492.8	969.3	2276.6	4576.3	6486.4	3731.9
72.5°	586.5	587.8	563.4	481.9	439.8	344.8	449.4	663.8	1365.7	1767.5	874.3
75°	519.9	513.2	483.3	431.7	362.5	226.7	222.6	295.9	420.8	418.1	188.7
77.5°	376.0	369.3	378.8	354.3	278.3	146.6	111.3	142.5	171.1	165.6	52.9
80°	275.6	271.5	244.4	294.6	245.7	100.5	69.2	76.0	88.2	74.7	16.3
82.5°	188.7	187.3	172.4	162.9	139.8	61.1	43.4	47.5	57.0	42.1	8.1
85°	29.9	33.9	124.9	99.1	82.8	27.2	29.9	32.6	38.0	23.1	2.7
87.5°	0.0	0.0	58.4	51.6	16.3	10.9	17.6	19.0	19.0	12.2	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°	6475.5	6475.5	6475.5	6475.5	6475.5	6475.5	6475.5	6475.5	6475.5	6475.5	6475.5
2.5°	6500.0	6364.2	6113.1	5853.8	5613.5	5327.0	5130.2	4982.2	4811.2	4765.0	4865.5
5°	6544.8	6288.2	5747.9	5160.1	4607.5	3995.3	3526.9	3156.3	2821.0	2707.0	2810.1
7.5°	6615.4	6233.9	5352.8	4384.9	3423.7	2468.0	1813.7	1383.3	1109.1	1027.7	1071.1
10°	6685.9	6155.1	4895.3	3467.2	2153.1	1201.4	782.0	624.5	566.1	553.9	560.7
12.5°	6744.3	6049.3	4337.4	2465.3	1151.2	643.5	511.8	486.0	477.9	477.9	480.6
15°	6779.6	5889.1	3676.3	1568.0	662.5	486.0	446.6	438.5	438.5	439.8	442.6
17.5°	6775.5	5685.4	2952.7	948.9	495.5	430.3	407.3	400.5	399.1	401.8	403.2
20°	6725.3	5419.4	2226.4	625.8	431.7	392.3	369.3	357.0	355.7	358.4	361.1
22.5°	6630.3	5090.8	1592.4	481.9	389.6	355.7	327.2	316.3	316.3	319.0	321.7
25°	6514.9	4689.0	1088.8	408.6	351.6	316.3	289.2	279.7	282.4	289.2	290.5
27.5°	6371.0	4236.9	739.9	350.2	305.4	276.9	256.6	249.8	256.6	266.1	268.8
30°	6247.5	3765.9	528.1	302.7	259.3	238.9	226.7	226.7	236.2	253.9	257.9
32.5°	6152.4	3309.7	407.3	267.4	225.4	207.7	200.9	207.7	222.6	240.3	244.4
35°	6140.2	2933.7	344.8	238.9	200.9	183.3	180.6	192.8	207.7	221.3	224.0
37.5°	6233.9	2586.1	310.9	215.9	179.2	162.9	160.2	175.1	190.1	206.3	210.4
40°	6411.7	2313.3	286.4	194.1	161.5	143.9	138.5	149.3	169.7	191.4	196.8
42.5°	6642.5	2087.9	259.3	172.4	143.9	119.5	112.7	124.9	146.6	169.7	176.5
45°	6862.4	1893.8	229.4	148.0	120.8	92.3	89.6	105.9	116.7	139.8	145.3
47.5°	6983.3	1722.7	203.6	120.8	93.7	74.7	74.7	78.7	89.6	116.7	122.2
50°	6942.5	1585.6	176.5	89.6	65.2	57.0	57.0	55.7	72.0	93.7	97.7
52.5°	6861.1	1506.9	152.0	69.2	44.8	40.7	36.7	40.7	50.2	59.7	61.1
55°	6848.9	1493.3	127.6	55.7	31.2	27.2	20.4	20.4	20.4	19.0	16.3
57.5°	6943.9	1515.0	107.2	44.8	23.1	17.6	10.9	0.0	0.0	0.0	0.0
60°	7041.6	1538.1	92.3	31.2	16.3	9.5	1.4	0.0	0.0	0.0	0.0
62.5°	6878.7	1486.5	77.4	19.0	12.2	4.1	0.0	0.0	0.0	0.0	0.0
65°	6042.5	1265.2	61.1	13.6	8.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4298.0	847.1	40.7	8.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	1961.7	354.3	25.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	419.5	110.0	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	85.5	80.1	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	27.2	126.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.3	91.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.7	13.6	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)