

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: P300715

Luminaire Tested: **GLNA-AF-10-LED-E1-AFL-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300715
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-10-LED-E1-AFL-7030-800-HSS
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34239.9 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 419
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

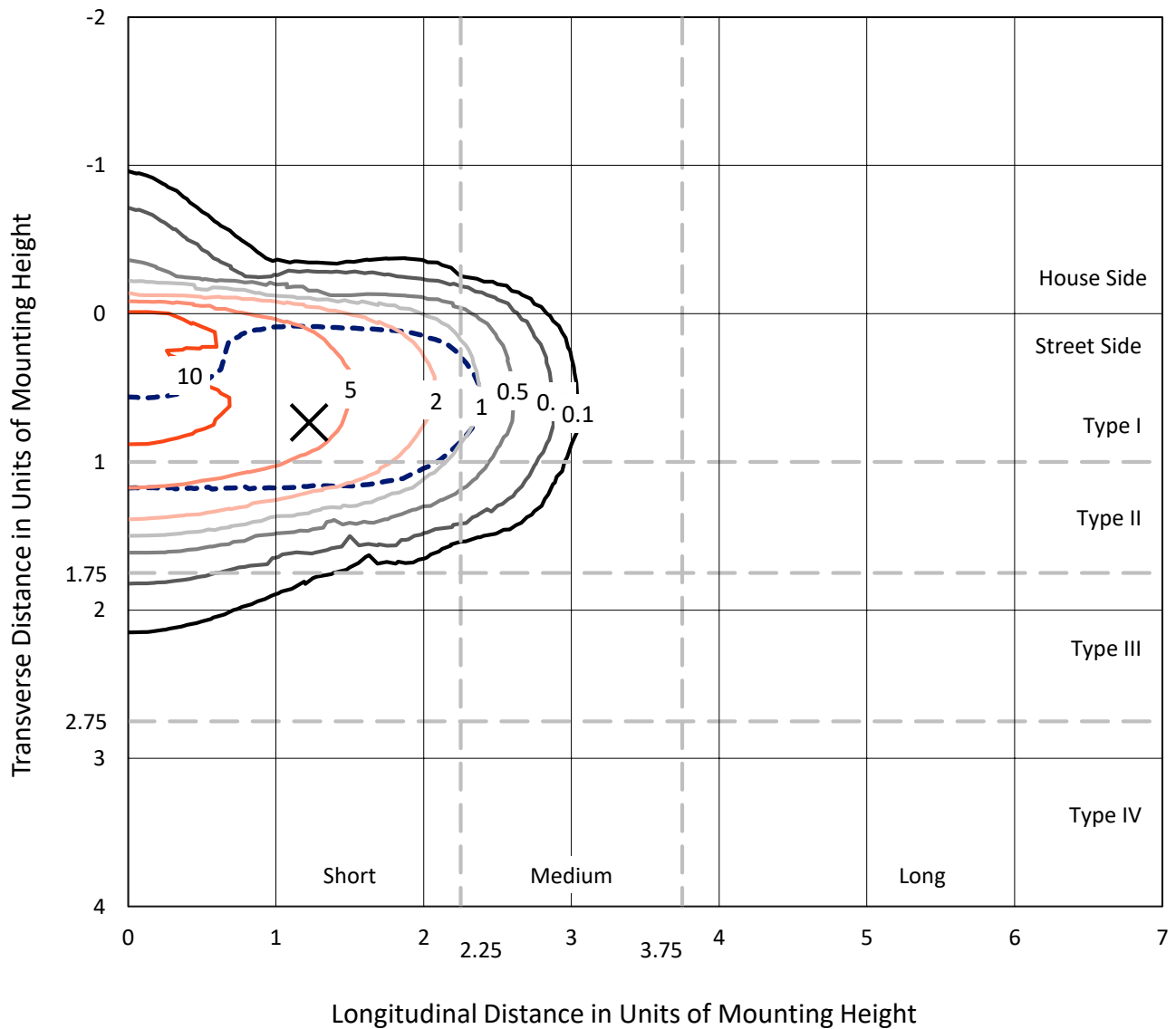


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

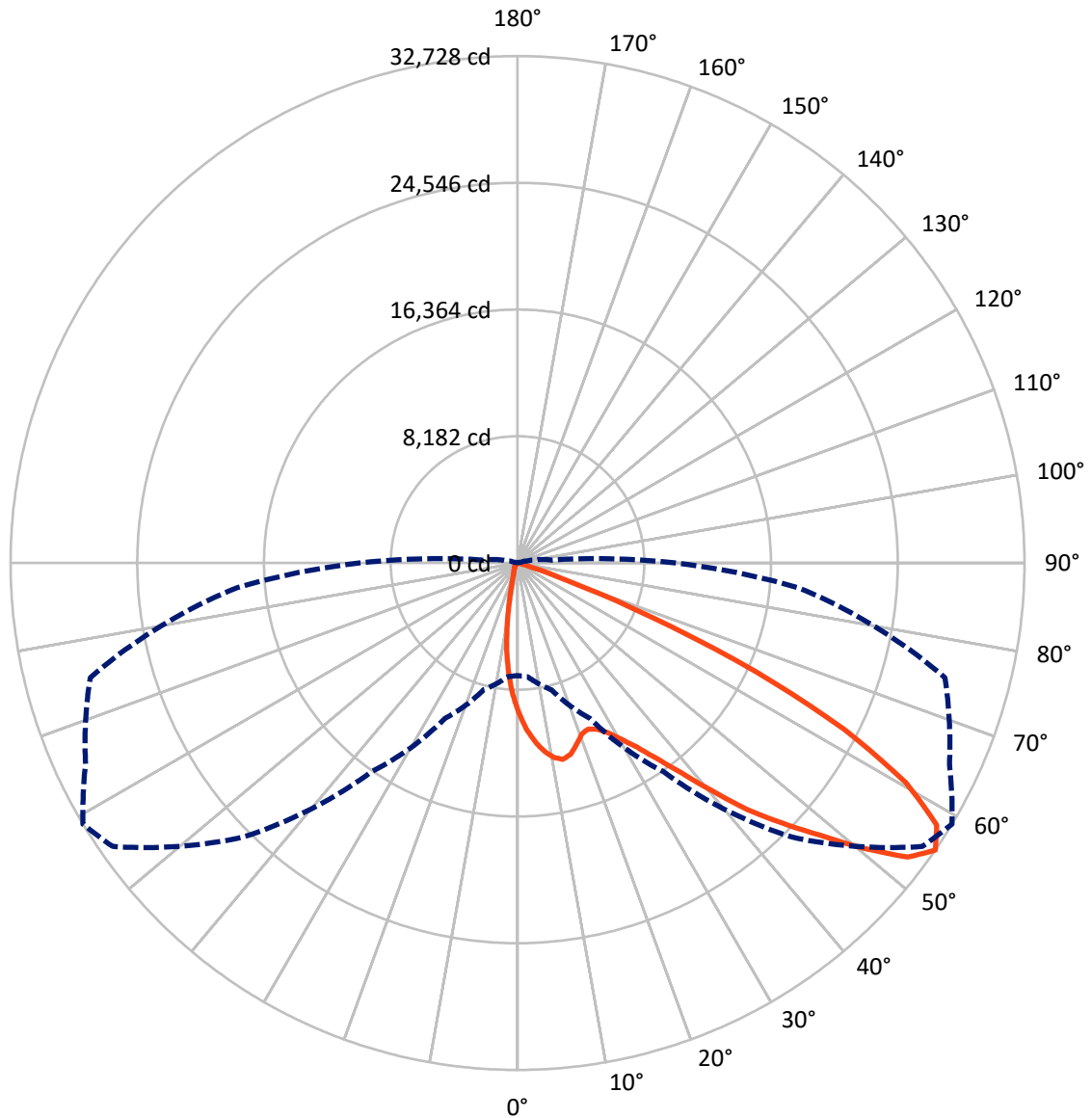


Based on 30 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - Full Cutoff

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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	1912.5	0.0	1912.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	32327.4	0.0	32327.4
	% Fixture	94.4	0.0	94.4
Total	Lumens	34239.9	0.0	34239.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	807.3	2.4
10°-20°	1932.9	5.6
20°-30°	3289.1	9.6
30°-40°	5656.6	16.5
40°-50°	8733.2	25.5
50°-60°	8779.6	25.6
60°-70°	4502.2	13.1
70°-80°	487.9	1.4
80°-90°	51.0	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°	34239.9	100.0
0°-180°	34239.9	100.0

Coefficient of Utilization



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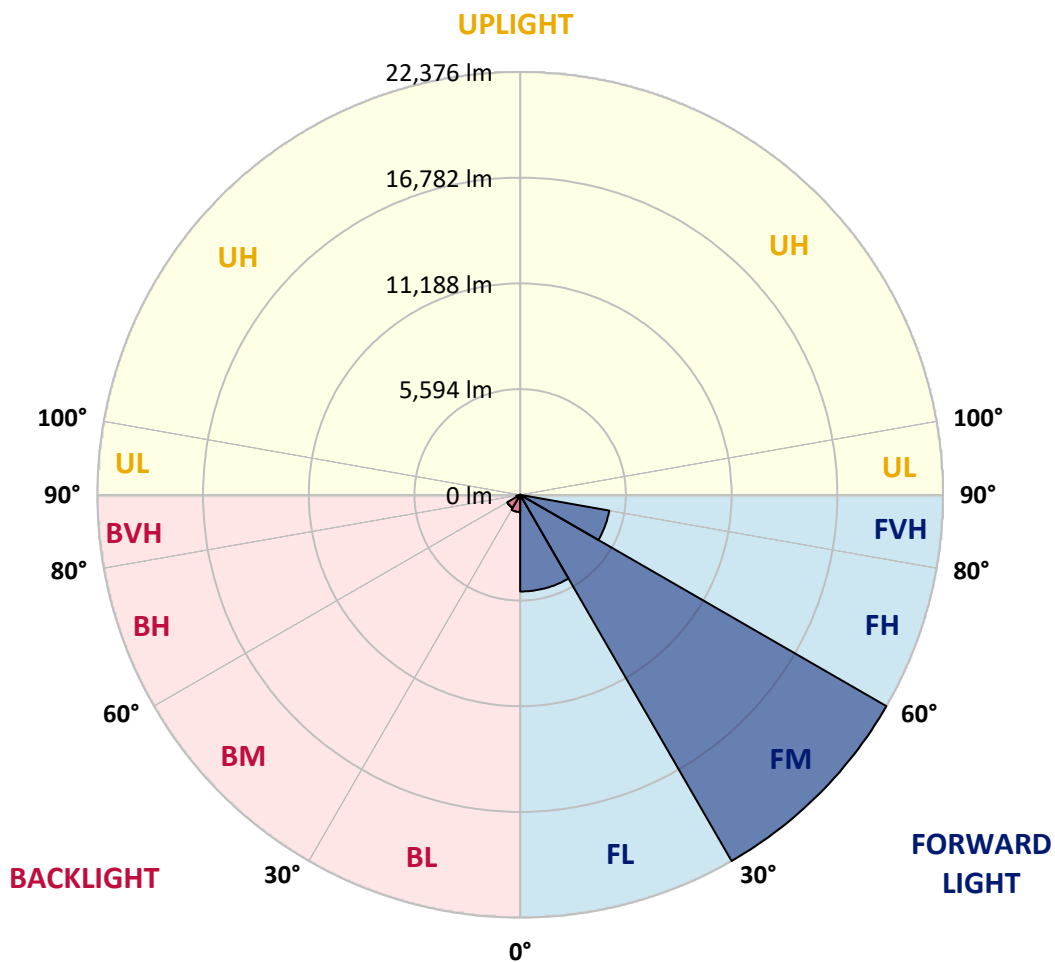
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5116.6	14.9			
FM (30°-60°)	22375.6	65.3			
FH (60°-80°)	4785.3	14.0			G2/5000
FVH (80°-90°)	49.9	0.1			G1/100
BL (0°-30°)	912.8	2.7	B2/1000		
BM (30°-60°)	793.7	2.3	B1/1000		
BH (60°-80°)	204.9	0.6	B1/500		G1/500
BVH (80°-90°)	1.1	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°	9638.4	9638.4	9638.4	9638.4	9638.4	9638.4	9638.4	9638.4	9638.4	9638.4	9638.4
2.5°	11404.4	11283.2	11246.8	11222.6	11111.4	10972.0	10782.1	10693.2	10511.3	10218.3	9858.7
5°	12449.1	12426.9	12346.1	12301.6	12182.4	11984.4	11681.3	11535.8	11246.8	10753.8	10109.2
7.5°	11992.4	12131.9	12243.0	12428.9	12663.3	12655.2	12400.6	12249.1	11925.8	11275.1	10388.1
10°	10228.4	10341.6	10523.4	10945.8	11806.5	12566.3	12865.4	12756.2	12497.6	11754.0	10656.8
12.5°	9882.9	9870.8	9903.1	10026.4	10477.0	11560.0	12786.5	13006.8	12954.3	12192.5	10911.4
15°	10066.8	10052.6	10048.6	10091.0	10200.1	10656.8	12194.5	12827.0	13233.1	12598.6	11127.6
17.5°	10582.0	10521.4	10489.1	10454.7	10422.4	10535.6	11483.2	12323.8	13275.5	12954.3	11307.4
20°	11465.1	11364.0	11244.8	11050.8	10869.0	10812.4	11184.2	11806.5	13124.0	13225.0	11424.6
22.5°	12574.4	12445.1	12239.0	11885.3	11515.6	11301.4	11331.7	11642.9	12897.7	13520.0	11479.2
25°	13821.1	13655.4	13380.6	12889.6	12346.1	11966.2	11768.2	11877.3	12794.6	13865.6	11541.8
27.5°	15156.7	14972.9	14613.2	13944.4	13328.1	12814.8	12410.7	12396.6	12970.4	14318.2	11642.9
30°	16480.3	16452.0	15983.2	15276.0	14459.6	13835.3	13253.3	13178.6	13461.4	14944.6	11842.9
32.5°	18246.3	18034.1	17460.3	16732.8	15791.2	15041.6	14352.5	14178.8	14215.1	15674.0	12152.1
35°	20473.0	20240.7	19432.4	18428.2	17375.4	16490.4	15728.6	15492.2	15403.3	16868.2	12673.4
37.5°	21911.7	21907.7	21400.5	20378.1	19248.5	18272.6	17444.1	17167.3	16987.4	18311.0	13481.6
40°	21950.1	22045.1	22111.8	22101.7	21297.4	20398.3	19662.8	19321.3	18903.0	20238.6	14526.3
42.5°	20772.1	21016.6	21604.6	22602.8	23079.6	22722.0	22101.7	21766.2	21143.9	22301.7	15799.3
45°	19179.8	19349.6	20378.1	22216.8	24045.5	25025.5	24552.7	23952.6	23132.2	24453.7	16941.0
47.5°	18466.5	18496.9	19161.6	21180.2	24118.2	26912.8	27199.7	26223.7	24938.6	26187.4	17834.1
50°	16334.8	16389.3	17306.7	19383.9	23265.5	27803.9	29858.9	28933.4	26908.7	27523.0	18159.4
52.5°	12311.7	12388.5	13552.4	16431.8	20921.6	27424.0	31762.3	31538.0	29066.8	28175.7	18177.6
55°	7264.2	7365.2	8476.5	11060.9	16456.0	25007.3	31903.7	32728.2	30770.2	28561.6	18149.3
57.5°	3392.6	3463.4	4099.9	5698.2	10234.5	19763.8	29774.0	31911.8	31709.8	28765.7	18349.3
60°	1802.4	1822.6	1976.2	2467.2	4625.2	12532.0	25617.6	28816.2	30853.0	29048.6	18593.8
62.5°	1378.1	1384.1	1376.0	1434.6	1943.8	5562.8	19363.7	23689.9	27403.8	28836.4	18323.1
65°	1194.2	1204.3	1147.7	1133.6	1246.7	1984.3	11503.4	16886.4	21533.9	25973.2	16478.2
67.5°	1070.9	1075.0	1006.3	947.7	967.9	1073.0	4538.3	9244.4	14253.5	19038.4	11943.9
70°	986.1	982.0	907.3	814.3	788.0	733.5	1442.7	3388.6	6811.5	9654.6	5554.7
72.5°	872.9	874.9	838.6	717.3	654.7	513.2	668.8	988.1	2032.8	2630.9	1301.3
75°	773.9	763.8	719.3	642.6	539.5	337.4	331.4	440.5	626.4	622.4	280.9
77.5°	559.7	549.6	563.8	527.4	414.2	218.2	165.7	212.2	254.6	246.5	78.8
80°	410.2	404.1	363.7	438.5	365.7	149.5	103.1	113.2	131.3	111.1	24.2
82.5°	280.9	278.8	256.6	242.5	208.1	90.9	64.7	70.7	84.9	62.6	12.1
85°	44.5	50.5	185.9	147.5	123.3	40.4	44.5	48.5	56.6	34.4	4.0
87.5°	0.0	0.0	86.9	76.8	24.2	16.2	26.3	28.3	28.3	18.2	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°	9638.4	9638.4	9638.4	9638.4	9638.4	9638.4	9638.4	9638.4	9638.4	9638.4	9638.4
2.5°	9674.8	9472.7	9098.9	8713.0	8355.3	7929.0	7636.0	7415.7	7161.1	7092.4	7241.9
5°	9741.5	9359.6	8555.3	7680.4	6858.0	5946.7	5249.6	4698.0	4198.9	4029.1	4182.7
7.5°	9846.5	9278.7	7967.3	6526.6	5096.0	3673.5	2699.6	2059.0	1650.9	1529.6	1594.3
10°	9951.6	9161.5	7286.4	5160.7	3204.7	1788.3	1163.9	929.5	842.6	824.4	834.5
12.5°	10038.5	9003.9	6455.9	3669.5	1713.5	957.8	761.8	723.4	711.3	711.3	715.3
15°	10091.0	8765.5	5471.9	2333.8	986.1	723.4	664.8	652.7	652.7	654.7	658.7
17.5°	10085.0	8462.4	4394.9	1412.4	737.5	640.5	606.2	596.1	594.1	598.1	600.1
20°	10010.2	8066.4	3313.8	931.5	642.6	584.0	549.6	531.4	529.4	533.4	537.5
22.5°	9868.8	7577.4	2370.2	717.3	579.9	529.4	487.0	470.8	470.8	474.8	478.9
25°	9697.0	6979.3	1620.5	608.2	523.3	470.8	430.4	416.2	420.3	430.4	432.4
27.5°	9482.8	6306.4	1101.2	521.3	454.6	412.2	381.9	371.8	381.9	396.0	400.1
30°	9298.9	5605.2	786.0	450.6	385.9	355.6	337.4	337.4	351.6	377.9	383.9
32.5°	9157.5	4926.3	606.2	398.1	335.4	309.2	299.1	309.2	331.4	357.7	363.7
35°	9139.3	4366.6	513.2	355.6	299.1	272.8	268.7	286.9	309.2	329.4	333.4
37.5°	9278.7	3849.3	462.7	321.3	266.7	242.5	238.4	260.7	282.9	307.1	313.2
40°	9543.4	3443.2	426.4	289.0	240.5	214.2	206.1	222.3	252.6	284.9	293.0
42.5°	9886.9	3107.7	385.9	256.6	214.2	177.8	167.7	185.9	218.2	252.6	262.7
45°	10214.3	2818.8	341.5	220.2	179.8	137.4	133.4	157.6	173.8	208.1	216.2
47.5°	10394.1	2564.2	303.1	179.8	139.4	111.1	111.1	117.2	133.4	173.8	181.9
50°	10333.5	2360.1	262.7	133.4	97.0	84.9	84.9	82.8	107.1	139.4	145.5
52.5°	10212.3	2242.9	226.3	103.1	66.7	60.6	54.6	60.6	74.8	88.9	90.9
55°	10194.1	2222.7	189.9	82.8	46.5	40.4	30.3	30.3	30.3	28.3	24.2
57.5°	10335.5	2255.0	159.6	66.7	34.4	26.3	16.2	0.0	0.0	0.0	0.0
60°	10481.0	2289.4	137.4	46.5	24.2	14.1	2.0	0.0	0.0	0.0	0.0
62.5°	10238.5	2212.6	115.2	28.3	18.2	6.1	0.0	0.0	0.0	0.0	0.0
65°	8993.8	1883.2	90.9	20.2	12.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6397.3	1260.9	60.6	12.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2919.8	527.4	38.4	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	624.4	163.7	26.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	127.3	119.2	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	40.4	187.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	24.2	135.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.0	20.2	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)