

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: P300702

Luminaire Tested: **GLNA-AF-08-LED-E1-AFL-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300702
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-7027-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K 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: 24902.3 lumens
Efficiency: N/A
Efficacy: 74.6 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): 334
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

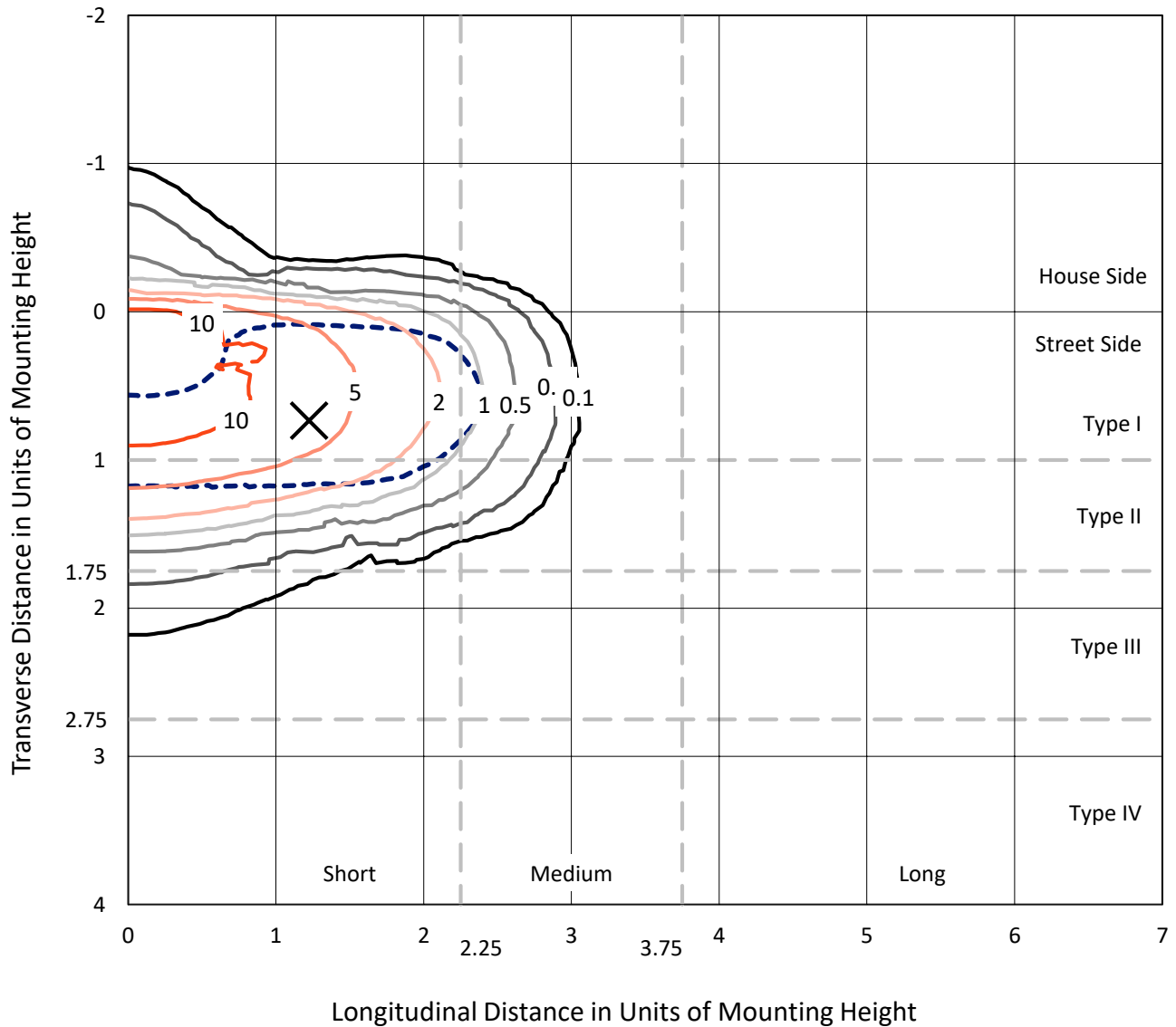


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

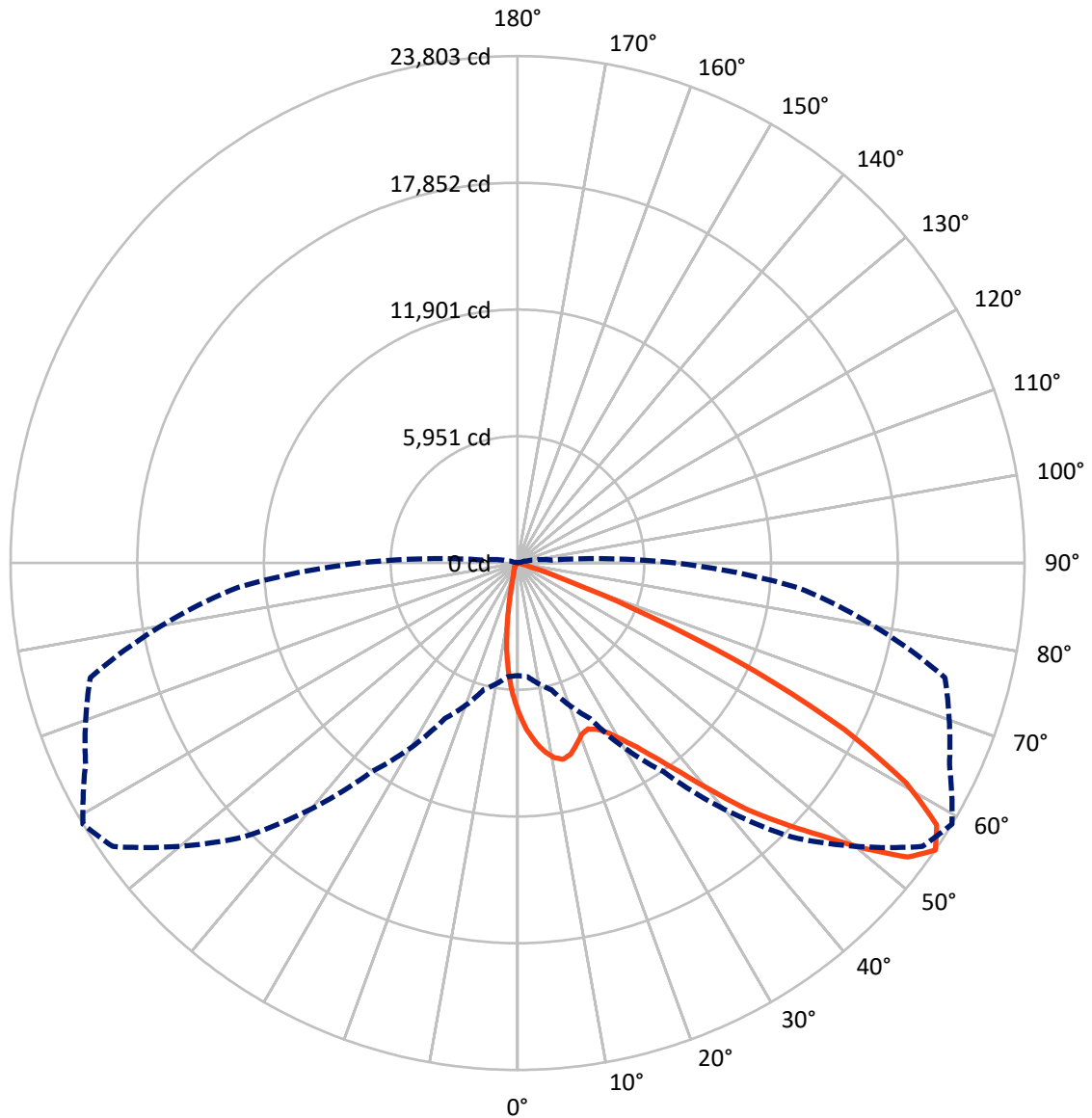


Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - Full Cutoff

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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	1390.9	0.0	1390.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	23511.4	0.0	23511.4
	% Fixture	94.4	0.0	94.4
Total	Lumens	24902.3	0.0	24902.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.2	2.4
10°-20°	1405.8	5.6
20°-30°	2392.2	9.6
30°-40°	4114.0	16.5
40°-50°	6351.5	25.5
50°-60°	6385.3	25.6
60°-70°	3274.4	13.1
70°-80°	354.9	1.4
80°-90°	37.1	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°	24902.3	100.0
0°-180°	24902.3	100.0

Coefficient of Utilization



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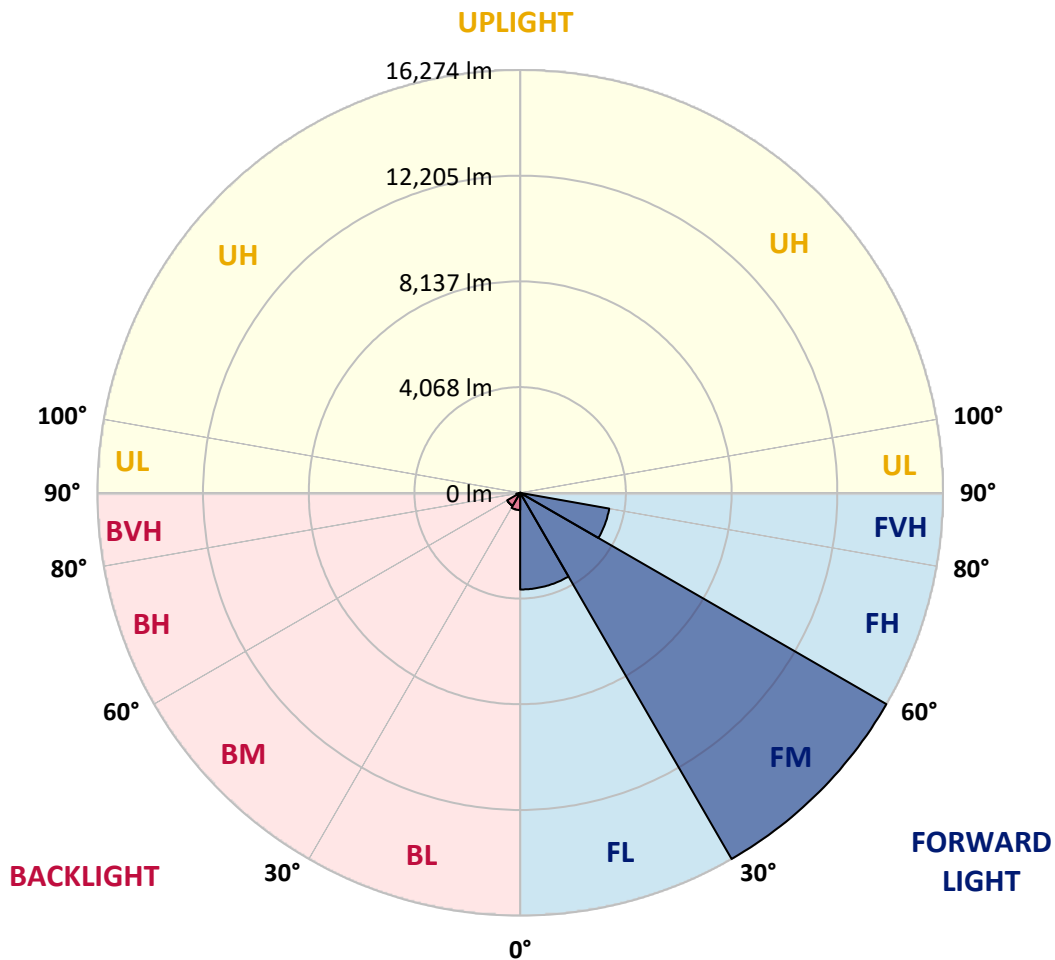
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3721.2	14.9			
FM (30°-60°)	16273.6	65.3			
FH (60°-80°)	3480.3	14.0			G2/5000
FVH (80°-90°)	36.3	0.1			G1/100
BL (0°-30°)	663.9	2.7	B2/1000		
BM (30°-60°)	577.3	2.3	B1/1000		
BH (60°-80°)	149.0	0.6	B1/500		G1/500
BVH (80°-90°)	0.8	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°	7009.9	7009.9	7009.9	7009.9	7009.9	7009.9	7009.9	7009.9	7009.9	7009.9	7009.9
2.5°	8294.3	8206.2	8179.7	8162.1	8081.2	7979.8	7841.7	7777.0	7644.8	7431.7	7170.1
5°	9054.1	9037.9	8979.2	8946.8	8860.1	8716.1	8495.7	8389.9	8179.7	7821.1	7352.3
7.5°	8722.0	8823.4	8904.2	9039.4	9209.9	9204.0	9018.8	8908.6	8673.5	8200.3	7555.1
10°	7439.0	7521.3	7653.6	7960.7	8586.8	9139.3	9356.8	9277.5	9089.4	8548.6	7750.6
12.5°	7187.7	7178.9	7202.4	7292.1	7619.8	8407.5	9299.5	9459.7	9421.5	8867.5	7935.8
15°	7321.5	7311.2	7308.2	7339.1	7418.5	7750.6	8868.9	9328.9	9624.3	9162.9	8093.0
17.5°	7696.2	7652.1	7628.6	7603.6	7580.1	7662.4	8351.6	8963.0	9655.2	9421.5	8223.8
20°	8338.4	8264.9	8178.2	8037.2	7904.9	7863.7	8134.1	8586.8	9544.9	9618.4	8309.0
22.5°	9145.2	9051.2	8901.3	8644.1	8375.2	8219.4	8241.4	8467.7	9380.4	9833.0	8348.7
25°	10052.0	9931.4	9731.6	9374.5	8979.2	8702.9	8558.9	8638.2	9305.4	10084.3	8394.3
27.5°	11023.3	10889.6	10628.0	10141.6	9693.4	9320.1	9026.2	9015.9	9433.3	10413.5	8467.7
30°	11985.9	11965.4	11624.4	11110.1	10516.3	10062.2	9639.0	9584.6	9790.4	10869.0	8613.2
32.5°	13270.3	13116.0	12698.7	12169.6	11484.8	10939.6	10438.5	10312.1	10338.5	11399.6	8838.1
35°	14889.8	14720.8	14133.0	13402.6	12637.0	11993.3	11439.2	11267.3	11202.6	12268.1	9217.2
37.5°	15936.2	15933.2	15564.4	14820.8	13999.3	13289.4	12686.9	12485.6	12354.8	13317.4	9805.1
40°	15964.1	16033.2	16081.7	16074.3	15489.4	14835.4	14300.5	14052.2	13748.0	14719.4	10564.8
42.5°	15107.3	15285.1	15712.8	16438.8	16785.6	16525.5	16074.3	15830.4	15377.7	16219.8	11490.7
45°	13949.3	14072.7	14820.8	16158.1	17488.0	18200.8	17856.9	17420.4	16823.8	17784.9	12321.0
47.5°	13430.5	13452.6	13936.1	15404.2	17541.0	19573.4	19782.1	19072.3	18137.6	19045.8	12970.5
50°	11880.1	11919.8	12587.0	14097.7	16920.8	20221.5	21716.0	21043.0	19570.4	20017.2	13207.2
52.5°	8954.2	9010.0	9856.5	11950.7	15216.1	19945.2	23100.4	22937.3	21140.0	20491.9	13220.4
55°	5283.2	5356.6	6164.9	8044.5	11968.3	18187.6	23203.3	23802.9	22378.8	20772.6	13199.8
57.5°	2467.4	2518.9	2981.8	4144.2	7443.4	14374.0	21654.3	23209.1	23062.2	20921.0	13345.3
60°	1310.9	1325.6	1437.3	1794.4	3363.9	9114.4	18631.4	20957.7	22439.1	21126.7	13523.1
62.5°	1002.3	1006.7	1000.8	1043.4	1413.7	4045.8	14083.0	17229.4	19930.5	20972.4	13326.2
65°	868.5	875.9	834.7	824.4	906.7	1443.1	8366.3	12281.3	15661.4	18890.0	11984.5
67.5°	778.9	781.8	731.9	689.2	703.9	780.3	3300.7	6723.3	10366.4	13846.4	8686.7
70°	717.2	714.2	659.8	592.2	573.1	533.5	1049.3	2464.5	4954.0	7021.7	4039.9
72.5°	634.9	636.3	609.9	521.7	476.1	373.3	486.4	718.6	1478.4	1913.4	946.4
75°	562.9	555.5	523.2	467.3	392.4	245.4	241.0	320.4	455.6	452.6	204.3
77.5°	407.1	399.7	410.0	383.6	301.3	158.7	120.5	154.3	185.2	179.3	57.3
80°	298.3	293.9	264.5	318.9	266.0	108.7	74.9	82.3	95.5	80.8	17.6
82.5°	204.3	202.8	186.6	176.4	151.4	66.1	47.0	51.4	61.7	45.6	8.8
85°	32.3	36.7	135.2	107.3	89.6	29.4	32.3	35.3	41.1	25.0	2.9
87.5°	0.0	0.0	63.2	55.8	17.6	11.8	19.1	20.6	20.6	13.2	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°	7009.9	7009.9	7009.9	7009.9	7009.9	7009.9	7009.9	7009.9	7009.9	7009.9	7009.9
2.5°	7036.4	6889.4	6617.5	6336.8	6076.7	5766.6	5553.6	5393.4	5208.2	5158.2	5267.0
5°	7084.9	6807.1	6222.2	5585.9	4987.8	4325.0	3818.0	3416.8	3053.8	2930.4	3042.0
7.5°	7161.3	6748.3	5794.6	4746.8	3706.3	2671.7	1963.4	1497.5	1200.7	1112.5	1159.5
10°	7237.7	6663.1	5299.3	3753.3	2330.8	1300.6	846.5	676.0	612.8	599.6	606.9
12.5°	7300.9	6548.5	4695.3	2668.8	1246.2	696.6	554.0	526.1	517.3	517.3	520.2
15°	7339.1	6375.1	3979.6	1697.4	717.2	526.1	483.5	474.7	474.7	476.1	479.1
17.5°	7334.7	6154.6	3196.3	1027.2	536.4	465.9	440.9	433.5	432.1	435.0	436.5
20°	7280.3	5866.6	2410.1	677.5	467.3	424.7	399.7	386.5	385.0	388.0	390.9
22.5°	7177.4	5510.9	1723.8	521.7	421.8	385.0	354.2	342.4	342.4	345.4	348.3
25°	7052.5	5075.9	1178.6	442.3	380.6	342.4	313.0	302.7	305.7	313.0	314.5
27.5°	6896.8	4586.6	800.9	379.2	330.7	299.8	277.8	270.4	277.8	288.0	291.0
30°	6763.0	4076.6	571.7	327.7	280.7	258.6	245.4	245.4	255.7	274.8	279.2
32.5°	6660.2	3582.8	440.9	289.5	244.0	224.8	217.5	224.8	241.0	260.1	264.5
35°	6646.9	3175.8	373.3	258.6	217.5	198.4	195.5	208.7	224.8	239.5	242.5
37.5°	6748.3	2799.6	336.5	233.7	194.0	176.4	173.4	189.6	205.7	223.4	227.8
40°	6940.8	2504.2	310.1	210.2	174.9	155.8	149.9	161.7	183.7	207.2	213.1
42.5°	7190.7	2260.2	280.7	186.6	155.8	129.3	122.0	135.2	158.7	183.7	191.0
45°	7428.7	2050.1	248.4	160.2	130.8	99.9	97.0	114.6	126.4	151.4	157.2
47.5°	7559.5	1864.9	220.4	130.8	101.4	80.8	80.8	85.2	97.0	126.4	132.3
50°	7515.5	1716.5	191.0	97.0	70.5	61.7	61.7	60.3	77.9	101.4	105.8
52.5°	7427.3	1631.2	164.6	74.9	48.5	44.1	39.7	44.1	54.4	64.7	66.1
55°	7414.1	1616.5	138.1	60.3	33.8	29.4	22.0	22.0	22.0	20.6	17.6
57.5°	7516.9	1640.1	116.1	48.5	25.0	19.1	11.8	0.0	0.0	0.0	0.0
60°	7622.7	1665.0	99.9	33.8	17.6	10.3	1.5	0.0	0.0	0.0	0.0
62.5°	7446.4	1609.2	83.8	20.6	13.2	4.4	0.0	0.0	0.0	0.0	0.0
65°	6541.1	1369.7	66.1	14.7	8.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4652.7	917.0	44.1	8.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	2123.5	383.6	27.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	454.1	119.0	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	92.6	86.7	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	29.4	136.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	17.6	98.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.9	14.7	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)