

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: P300739

Luminaire Tested: **GLNA-AF-04-LED-E1-AFL-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300739
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-04-LED-E1-AFL-7030-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(4) 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: 11378.6 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 129
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

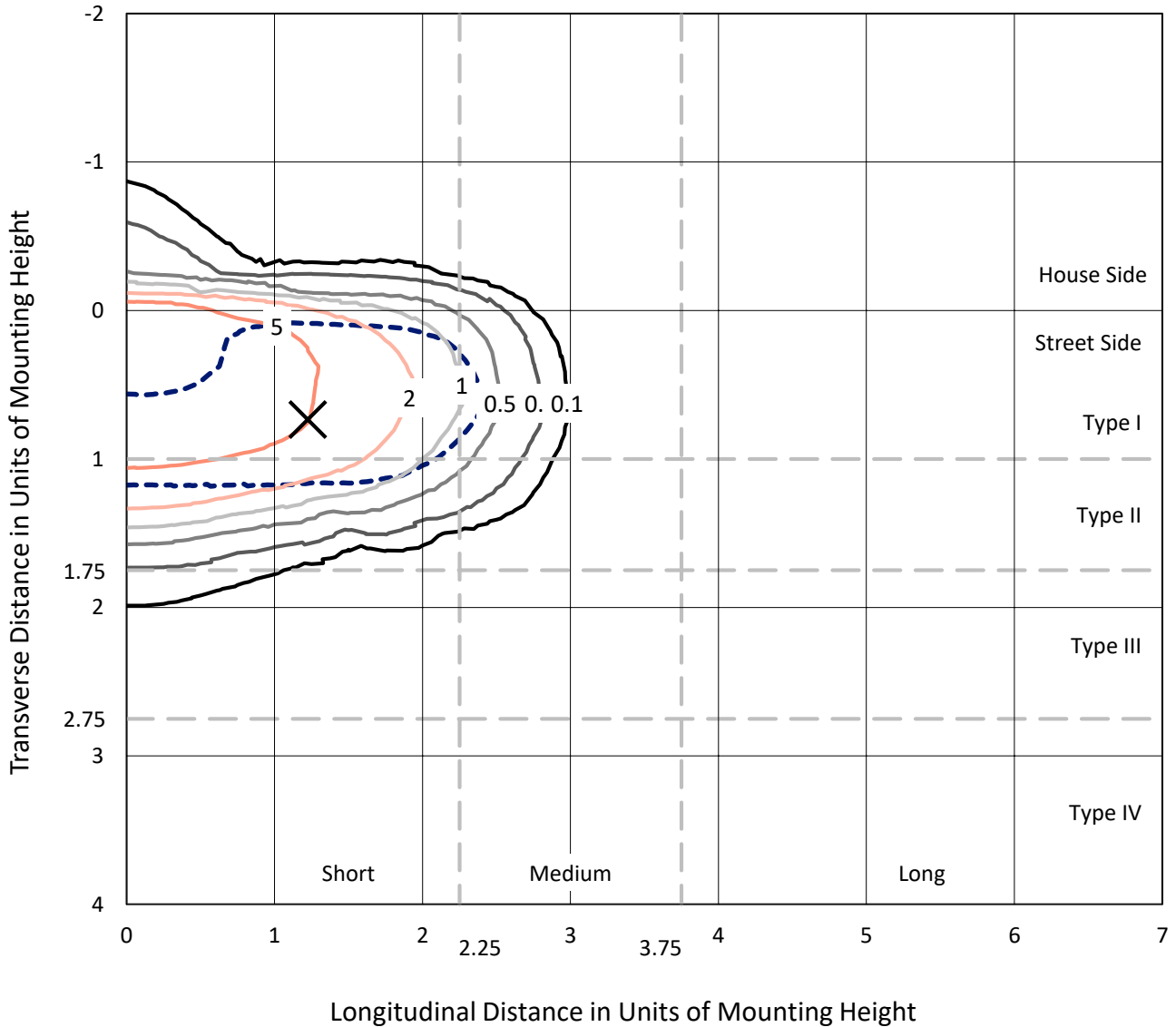


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

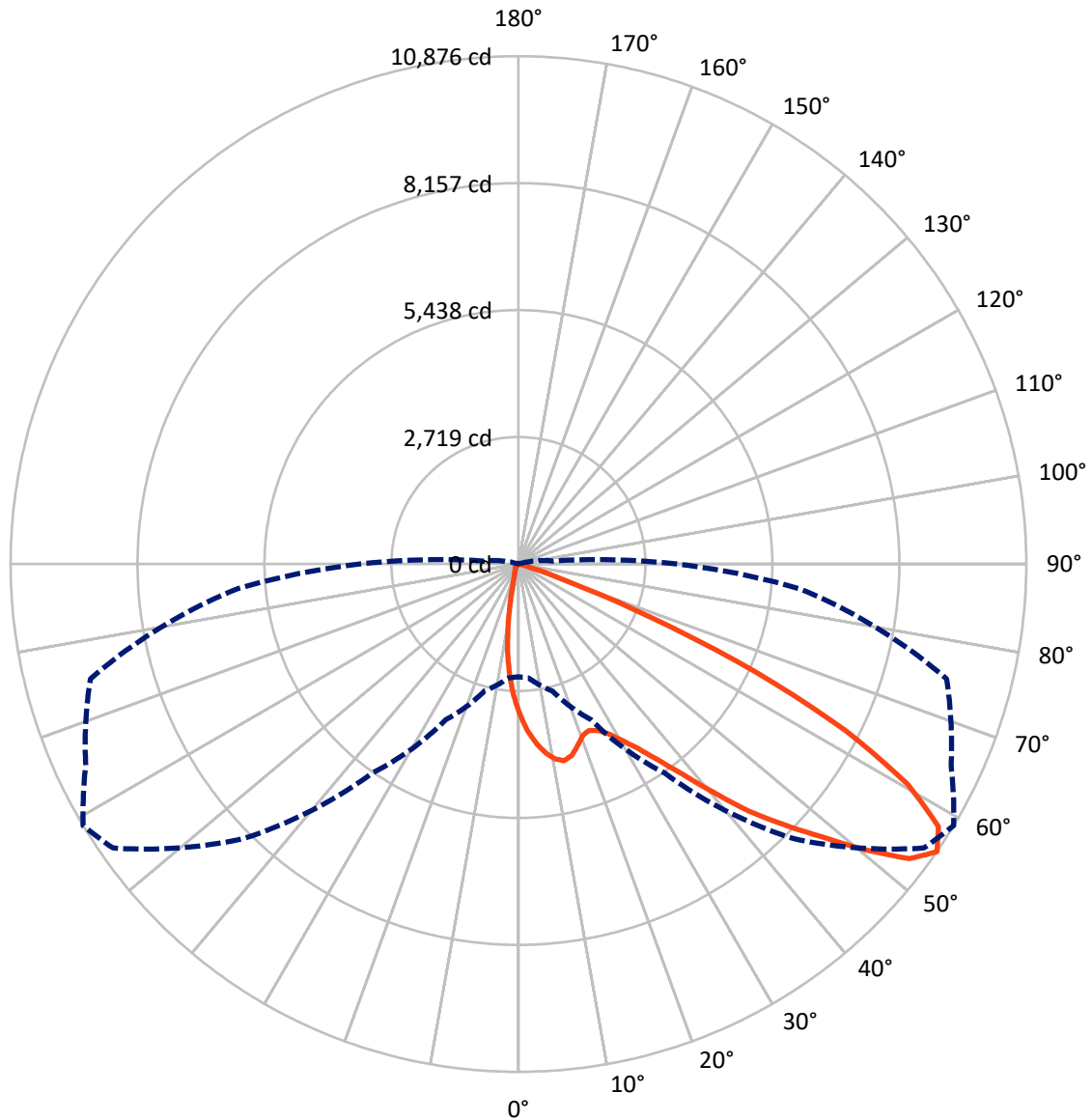


Based on 20 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - Full Cutoff

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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	635.6	0.0	635.6
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	10743.1	0.0	10743.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	11378.6	0.0	11378.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.3	2.4
10°-20°	642.4	5.6
20°-30°	1093.0	9.6
30°-40°	1879.8	16.5
40°-50°	2902.2	25.5
50°-60°	2917.6	25.6
60°-70°	1496.2	13.1
70°-80°	162.1	1.4
80°-90°	16.9	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°	11378.6	100.0
0°-180°	11378.6	100.0

Coefficient of Utilization



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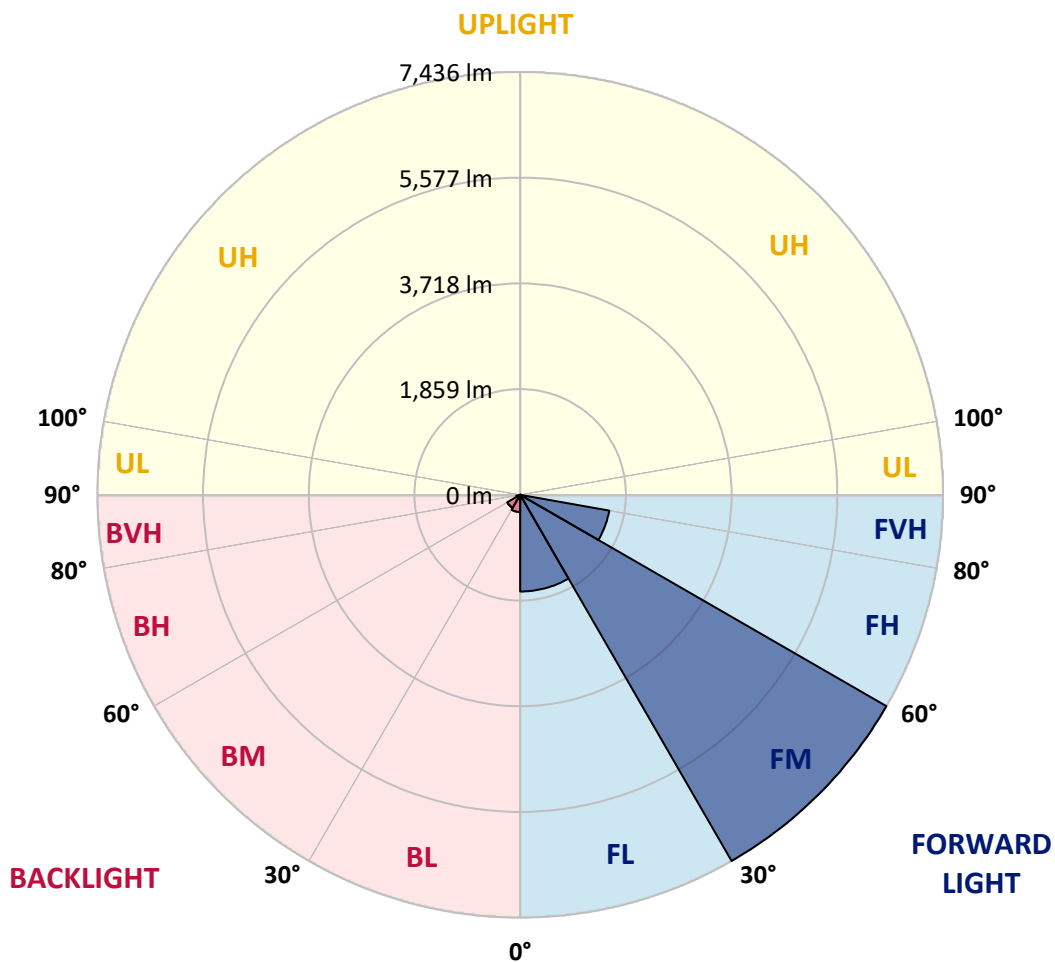
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1700.3	14.9			
FM (30°-60°)	7435.9	65.3			
FH (60°-80°)	1590.2	14.0			G1/1800
FVH (80°-90°)	16.6	0.1			G1/100
BL (0°-30°)	303.4	2.7	B1/500		
BM (30°-60°)	263.8	2.3	B1/1000		
BH (60°-80°)	68.1	0.6	B0/110		G0/110
BVH (80°-90°)	0.4	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°	59°	65°	75°	85°
0°	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0
2.5°	3789.9	3749.6	3737.6	3729.5	3692.6	3646.2	3583.1	3553.6	3493.1	3395.8	3276.2
5°	4137.1	4129.7	4102.8	4088.1	4048.5	3982.7	3881.9	3833.6	3737.6	3573.7	3359.5
7.5°	3985.3	4031.7	4068.6	4130.4	4208.3	4205.6	4121.0	4070.6	3963.2	3747.0	3452.2
10°	3399.1	3436.7	3497.2	3637.5	3923.6	4176.0	4275.4	4239.2	4153.2	3906.1	3541.5
12.5°	3284.3	3280.3	3291.0	3332.0	3481.7	3841.6	4249.2	4322.4	4305.0	4051.8	3626.1
15°	3345.4	3340.7	3339.4	3353.5	3389.7	3541.5	4052.5	4262.7	4397.6	4186.8	3697.9
17.5°	3516.6	3496.5	3485.7	3474.3	3463.6	3501.2	3816.1	4095.5	4411.7	4305.0	3757.7
20°	3810.1	3776.5	3736.9	3672.4	3612.0	3593.2	3716.7	3923.6	4361.4	4395.0	3796.6
22.5°	4178.7	4135.8	4067.3	3949.7	3826.9	3755.7	3765.8	3869.2	4286.2	4493.0	3814.8
25°	4593.0	4538.0	4446.7	4283.5	4102.8	3976.6	3910.8	3947.1	4251.9	4607.8	3835.6
27.5°	5036.9	4975.8	4856.3	4634.0	4429.2	4258.6	4124.3	4119.6	4310.3	4758.2	3869.2
30°	5476.7	5467.3	5311.5	5076.5	4805.2	4597.7	4404.4	4379.5	4473.5	4966.4	3935.6
32.5°	6063.6	5993.1	5802.4	5560.7	5247.8	4998.6	4769.6	4711.9	4724.0	5208.8	4038.4
35°	6803.6	6726.4	6457.8	6124.1	5774.2	5480.1	5226.9	5148.4	5118.8	5605.7	4211.6
37.5°	7281.7	7280.4	7111.8	6772.1	6396.7	6072.4	5797.0	5705.0	5645.3	6085.1	4480.2
40°	7294.5	7326.0	7348.2	7344.8	7077.6	6778.8	6534.3	6420.9	6281.9	6725.7	4827.4
42.5°	6903.0	6984.2	7179.7	7511.4	7669.8	7551.0	7344.8	7233.4	7026.5	7411.3	5250.4
45°	6373.9	6430.3	6772.1	7383.1	7990.8	8316.5	8159.4	7959.9	7687.3	8126.5	5629.8
47.5°	6136.8	6146.9	6367.8	7038.6	8015.0	8943.7	9039.0	8714.7	8287.6	8702.6	5926.6
50°	5428.4	5446.5	5751.4	6441.7	7731.6	9239.8	9922.7	9615.2	8942.3	9146.5	6034.7
52.5°	4091.4	4117.0	4503.7	5460.6	6952.7	9113.6	10555.3	10480.7	9659.5	9363.4	6040.8
55°	2414.0	2447.6	2816.9	3675.8	5468.7	8310.5	10602.3	10876.2	10225.6	9491.6	6031.4
57.5°	1127.4	1150.9	1362.5	1893.6	3401.1	6567.9	9894.5	10605.0	10537.8	9559.4	6097.9
60°	599.0	605.7	656.7	819.9	1537.1	4164.6	8513.2	9576.2	10253.1	9653.4	6179.1
62.5°	458.0	460.0	457.3	476.8	646.0	1848.6	6435.0	7872.6	9106.8	9582.9	6089.1
65°	396.9	400.2	381.4	376.7	414.3	659.4	3822.8	5611.7	7156.1	8631.4	5476.1
67.5°	355.9	357.2	334.4	314.9	321.6	356.6	1508.2	3072.1	4736.7	6326.8	3969.2
70°	327.7	326.3	301.5	270.6	261.9	243.8	479.4	1126.1	2263.6	3208.4	1845.9
72.5°	290.1	290.8	278.7	238.4	217.6	170.6	222.3	328.4	675.5	874.3	432.4
75°	257.2	253.8	239.1	213.5	179.3	112.1	110.1	146.4	208.2	206.8	93.3
77.5°	186.0	182.6	187.3	175.3	137.7	72.5	55.1	70.5	84.6	81.9	26.2
80°	136.3	134.3	120.9	145.7	121.5	49.7	34.2	37.6	43.6	36.9	8.1
82.5°	93.3	92.7	85.3	80.6	69.2	30.2	21.5	23.5	28.2	20.8	4.0
85°	14.8	16.8	61.8	49.0	41.0	13.4	14.8	16.1	18.8	11.4	1.3
87.5°	0.0	0.0	28.9	25.5	8.1	5.4	8.7	9.4	9.4	6.0	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°	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0
2.5°	3215.1	3148.0	3023.8	2895.5	2776.6	2635.0	2537.6	2464.4	2379.8	2357.0	2406.6
5°	3237.3	3110.4	2843.1	2552.4	2279.1	1976.2	1744.6	1561.2	1395.4	1339.0	1390.0
7.5°	3272.2	3083.5	2647.7	2168.9	1693.5	1220.8	897.1	684.3	548.6	508.3	529.8
10°	3307.1	3044.6	2421.4	1715.0	1065.0	594.3	386.8	308.9	280.0	274.0	277.3
12.5°	3336.0	2992.2	2145.4	1219.4	569.4	318.3	253.2	240.4	236.4	236.4	237.7
15°	3353.5	2913.0	1818.4	775.6	327.7	240.4	220.9	216.9	216.9	217.6	218.9
17.5°	3351.4	2812.2	1460.5	469.4	245.1	212.9	201.4	198.1	197.4	198.8	199.4
20°	3326.6	2680.6	1101.3	309.6	213.5	194.1	182.6	176.6	175.9	177.3	178.6
22.5°	3279.6	2518.1	787.7	238.4	192.7	175.9	161.8	156.5	156.5	157.8	159.1
25°	3222.5	2319.4	538.5	202.1	173.9	156.5	143.0	138.3	139.7	143.0	143.7
27.5°	3151.3	2095.7	366.0	173.2	151.1	137.0	126.9	123.6	126.9	131.6	133.0
30°	3090.2	1862.7	261.2	149.7	128.3	118.2	112.1	112.1	116.8	125.6	127.6
32.5°	3043.2	1637.1	201.4	132.3	111.5	102.7	99.4	102.7	110.1	118.9	120.9
35°	3037.2	1451.1	170.6	118.2	99.4	90.7	89.3	95.4	102.7	109.5	110.8
37.5°	3083.5	1279.2	153.8	106.8	88.6	80.6	79.2	86.6	94.0	102.1	104.1
40°	3171.5	1144.2	141.7	96.0	79.9	71.2	68.5	73.9	83.9	94.7	97.4
42.5°	3285.6	1032.8	128.3	85.3	71.2	59.1	55.7	61.8	72.5	83.9	87.3
45°	3394.4	936.7	113.5	73.2	59.8	45.7	44.3	52.4	57.7	69.2	71.9
47.5°	3454.2	852.1	100.7	59.8	46.3	36.9	36.9	38.9	44.3	57.7	60.4
50°	3434.0	784.3	87.3	44.3	32.2	28.2	28.2	27.5	35.6	46.3	48.3
52.5°	3393.7	745.4	75.2	34.2	22.2	20.1	18.1	20.1	24.8	29.5	30.2
55°	3387.7	738.6	63.1	27.5	15.4	13.4	10.1	10.1	10.1	9.4	8.1
57.5°	3434.7	749.4	53.0	22.2	11.4	8.7	5.4	0.0	0.0	0.0	0.0
60°	3483.1	760.8	45.7	15.4	8.1	4.7	0.7	0.0	0.0	0.0	0.0
62.5°	3402.5	735.3	38.3	9.4	6.0	2.0	0.0	0.0	0.0	0.0	0.0
65°	2988.8	625.8	30.2	6.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2126.0	419.0	20.1	4.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	970.3	175.3	12.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	207.5	54.4	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	42.3	39.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.4	62.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	8.1	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.3	6.7	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)