

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: P270115

Luminaire Tested: **GWC-AF-02-LED-E1-AFL-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270115
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: GWC-AF-02-LED-E1-AFL-7027-1200-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9527.9 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' 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

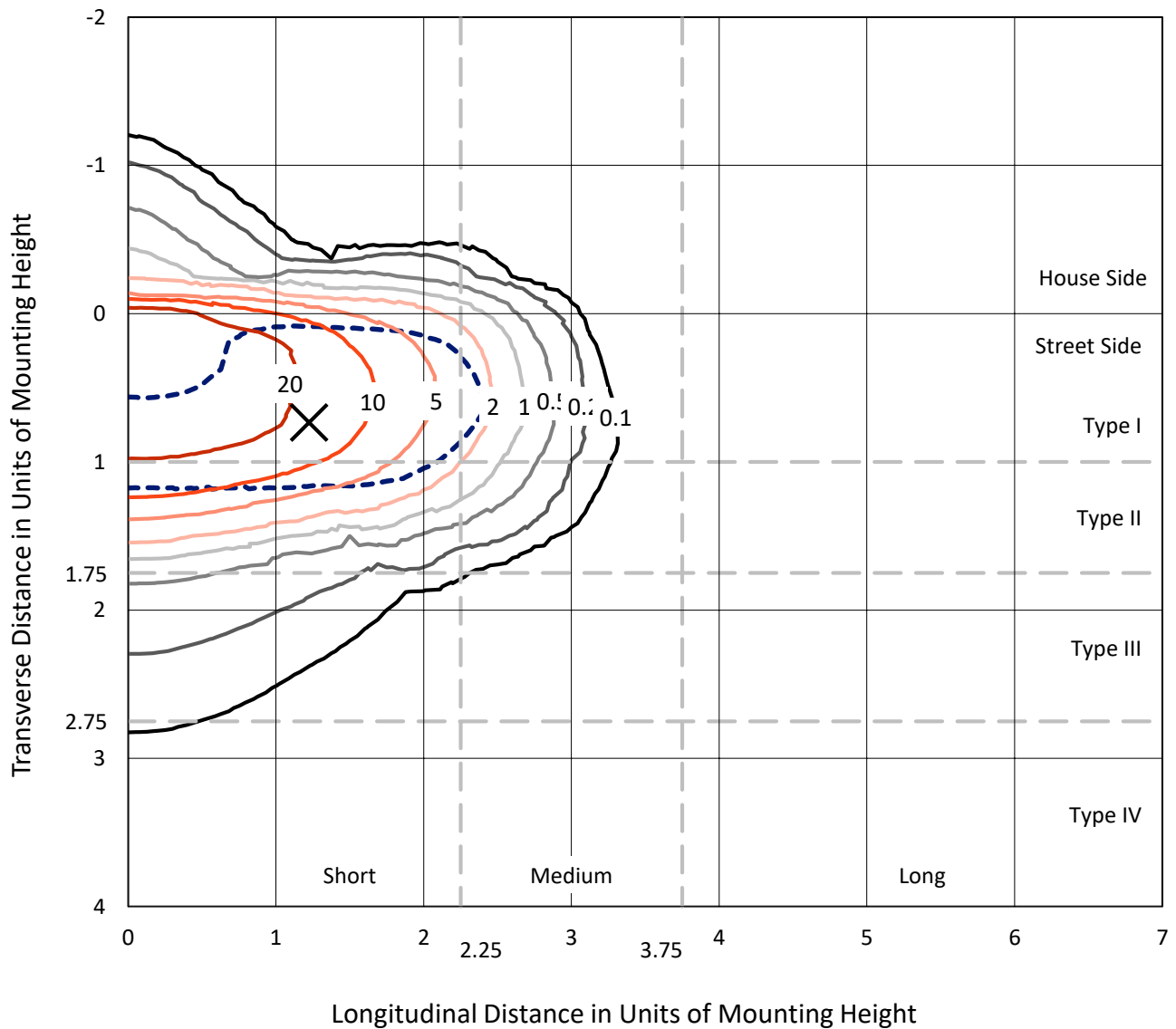


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

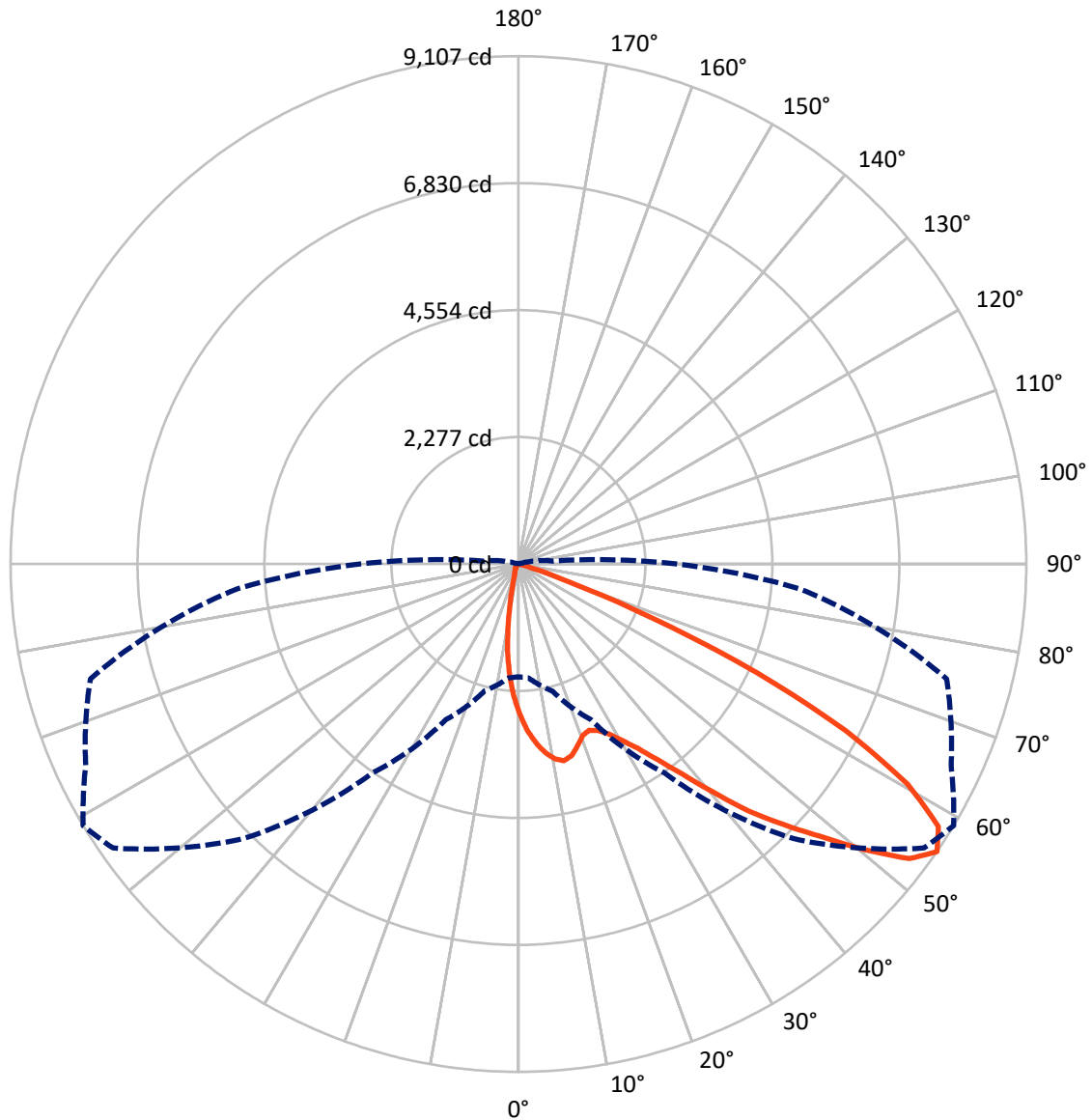


Based on 10 foot mounting height. Maximum calculated value = 33.4 fc
 Type II - Short - Full Cutoff

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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	532.2	0.0	532.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	8995.7	0.0	8995.7
	% Fixture	94.4	0.0	94.4
Total	Lumens	9527.9	0.0	9527.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.7	2.4
10°-20°	537.9	5.6
20°-30°	915.3	9.6
30°-40°	1574.0	16.5
40°-50°	2430.2	25.5
50°-60°	2443.1	25.6
60°-70°	1252.8	13.1
70°-80°	135.8	1.4
80°-90°	14.2	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°	9527.9	100.0
0°-180°	9527.9	100.0

Coefficient of Utilization



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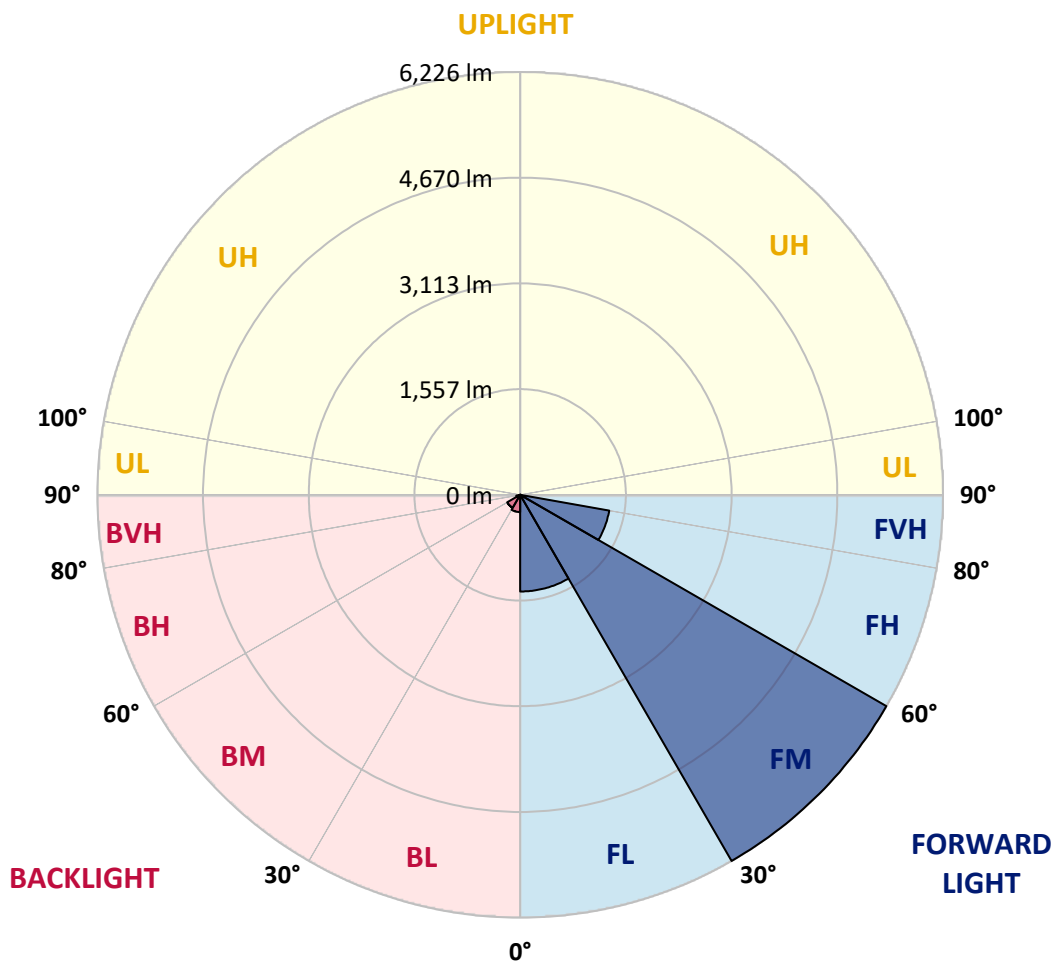
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1423.8	14.9			
FM	(30°-60°)	6226.4	65.3			
FH	(60°-80°)	1331.6	14.0			G1/1800
FVH	(80°-90°)	13.9	0.1			G1/100
BL	(0°-30°)	254.0	2.7	B1/500		
BM	(30°-60°)	220.9	2.3	B1/1000		
BH	(60°-80°)	57.0	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	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°	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1
2.5°	3173.4	3139.7	3129.7	3123.0	3092.0	3053.2	3000.2	2975.5	2925.0	2843.4	2743.3
5°	3464.2	3458.0	3435.6	3423.2	3390.0	3334.9	3250.4	3210.0	3129.7	2992.4	2813.1
7.5°	3337.1	3375.9	3406.9	3458.6	3523.8	3521.5	3450.7	3408.5	3318.6	3137.5	2890.7
10°	2846.2	2877.7	2928.3	3045.8	3285.4	3496.8	3579.9	3549.7	3477.7	3270.7	2965.5
12.5°	2750.1	2746.7	2755.7	2790.0	2915.4	3216.8	3558.1	3619.4	3604.7	3392.8	3036.3
15°	2801.3	2797.3	2796.2	2808.0	2838.4	2965.5	3393.3	3569.3	3682.3	3505.7	3096.5
17.5°	2944.6	2927.8	2918.8	2909.2	2900.3	2931.7	3195.4	3429.4	3694.1	3604.7	3146.5
20°	3190.3	3162.3	3129.1	3075.1	3024.5	3008.8	3112.2	3285.4	3652.0	3680.1	3179.1
22.5°	3499.0	3463.1	3405.7	3307.3	3204.4	3144.8	3153.2	3239.8	3589.0	3762.2	3194.3
25°	3846.0	3799.8	3723.5	3586.8	3435.6	3329.7	3274.7	3305.0	3560.3	3858.3	3211.7
27.5°	4217.6	4166.5	4066.4	3880.2	3708.7	3566.0	3453.4	3449.5	3609.3	3984.3	3239.8
30°	4585.9	4578.1	4447.7	4250.8	4023.6	3850.0	3687.9	3667.2	3745.9	4158.6	3295.5
32.5°	5077.3	5018.4	4858.7	4656.3	4394.2	4185.6	3993.9	3945.4	3955.6	4361.6	3381.5
35°	5697.0	5632.3	5407.3	5128.0	4835.0	4588.7	4376.7	4311.0	4286.3	4693.9	3526.6
37.5°	6097.3	6096.2	5955.0	5670.6	5356.2	5084.7	4854.2	4777.0	4727.1	5095.4	3751.5
40°	6107.9	6134.4	6153.0	6150.2	5926.4	5676.2	5471.6	5376.5	5260.0	5631.7	4042.2
42.5°	5780.2	5848.2	6011.8	6289.7	6422.3	6322.8	6150.2	6056.8	5883.6	6205.8	4396.4
45°	5337.1	5384.4	5670.6	6182.2	6691.1	6963.8	6832.1	6665.2	6437.0	6804.7	4714.1
47.5°	5138.7	5147.1	5332.1	5893.8	6711.4	7488.9	7568.8	7297.2	6939.7	7287.1	4962.7
50°	4545.5	4560.6	4815.9	5393.9	6474.0	7736.9	8308.8	8051.2	7487.8	7658.8	5053.1
52.5°	3426.0	3447.3	3771.2	4572.4	5821.8	7631.3	8838.3	8776.1	8088.3	7840.3	5058.2
55°	2021.4	2049.5	2358.8	3077.9	4579.2	6958.7	8877.8	9107.2	8562.4	7947.8	5050.4
57.5°	944.1	963.8	1140.8	1585.6	2847.9	5499.6	8285.2	8880.0	8823.8	8004.5	5106.1
60°	501.5	507.2	549.9	686.6	1287.0	3487.2	7128.6	8018.6	8585.4	8083.3	5174.1
62.5°	383.4	385.2	382.9	399.3	540.9	1547.9	5388.3	6592.1	7625.5	8024.2	5098.7
65°	332.3	335.1	319.3	315.4	346.9	552.2	3201.1	4698.9	5992.1	7227.5	4585.3
67.5°	298.1	299.1	280.0	263.7	269.3	298.5	1262.9	2572.4	3966.3	5297.8	3323.6
70°	274.4	273.3	252.5	226.6	219.3	204.1	401.5	943.0	1895.4	2686.6	1545.7
72.5°	243.0	243.4	233.3	199.6	182.2	142.8	186.1	275.0	565.7	732.1	362.1
75°	215.3	212.5	200.2	178.8	150.1	93.9	92.3	122.5	174.4	173.2	78.2
77.5°	155.8	152.9	156.8	146.8	115.3	60.7	46.1	59.0	70.8	68.6	21.9
80°	114.2	112.5	101.2	122.1	101.8	41.6	28.7	31.4	36.6	31.0	6.7
82.5°	78.2	77.6	71.4	67.5	57.9	25.2	18.0	19.7	23.6	17.4	3.4
85°	12.3	14.1	51.7	41.0	34.2	11.3	12.3	13.5	15.7	9.5	1.2
87.5°	0.0	0.0	24.3	21.3	6.7	4.5	7.4	7.9	7.9	5.0	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°	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1
2.5°	2692.2	2636.0	2532.0	2424.5	2325.0	2206.4	2124.9	2063.5	1992.7	1973.6	2015.2
5°	2710.7	2604.5	2380.7	2137.2	1908.4	1654.8	1460.7	1307.3	1168.4	1121.2	1163.9
7.5°	2740.0	2581.9	2217.0	1816.1	1418.1	1022.3	751.3	572.9	459.4	425.7	443.7
10°	2769.2	2549.3	2027.6	1436.1	891.8	497.6	323.9	258.7	234.5	229.4	232.2
12.5°	2793.5	2505.6	1796.4	1021.1	476.8	266.5	212.0	201.3	197.9	197.9	199.1
15°	2808.0	2439.2	1522.6	649.5	274.4	201.3	185.0	181.5	181.5	182.2	183.3
17.5°	2806.4	2354.8	1223.0	393.1	205.3	178.2	168.6	165.8	165.3	166.5	167.0
20°	2785.6	2244.6	922.1	259.3	178.8	162.5	152.9	148.0	147.3	148.4	149.6
22.5°	2746.1	2108.6	659.5	199.6	161.4	147.3	135.5	131.1	131.1	132.1	133.2
25°	2698.4	1942.1	450.9	169.2	145.6	131.1	119.7	115.8	117.0	119.7	120.3
27.5°	2638.8	1754.8	306.4	145.1	126.5	114.7	106.3	103.4	106.3	110.2	111.3
30°	2587.7	1559.7	218.7	125.4	107.3	99.0	93.9	93.9	97.8	105.2	106.8
32.5°	2548.2	1370.8	168.6	110.8	93.3	86.1	83.2	86.1	92.3	99.4	101.2
35°	2543.1	1215.0	142.8	99.0	83.2	75.9	74.7	79.9	86.1	91.6	92.8
37.5°	2581.9	1071.1	128.8	89.5	74.2	67.5	66.4	72.6	78.7	85.5	87.1
40°	2655.7	958.1	118.7	80.4	66.8	59.6	57.3	61.8	70.2	79.3	81.6
42.5°	2751.2	864.8	107.3	71.4	59.6	49.5	46.7	51.7	60.7	70.2	73.1
45°	2842.3	784.4	95.0	61.3	50.0	38.2	37.2	43.9	48.3	57.9	60.2
47.5°	2892.4	713.5	84.4	50.0	38.8	31.0	31.0	32.6	37.2	48.3	50.6
50°	2875.5	656.8	73.1	37.2	27.0	23.6	23.6	23.1	29.8	38.8	40.5
52.5°	2841.8	624.1	63.0	28.7	18.5	16.9	15.2	16.9	20.8	24.7	25.2
55°	2836.7	618.5	52.9	23.1	12.9	11.3	8.4	8.4	8.4	7.9	6.7
57.5°	2876.0	627.6	44.4	18.5	9.5	7.4	4.5	0.0	0.0	0.0	0.0
60°	2916.5	637.1	38.2	12.9	6.7	4.0	0.5	0.0	0.0	0.0	0.0
62.5°	2849.1	615.7	32.1	7.9	5.0	1.6	0.0	0.0	0.0	0.0	0.0
65°	2502.7	524.0	25.2	5.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1780.2	350.8	16.9	3.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	812.5	146.8	10.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	173.7	45.5	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	35.4	33.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.3	52.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.7	37.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.2	5.6	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)