

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: P199926

Luminaire Tested: **GWC-AF-02-LED-E1-AFL-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199926
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-7030-800-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 800mA 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: 7811.8 lumens
Efficiency: N/A
Efficacy: 90.8 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): 86
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

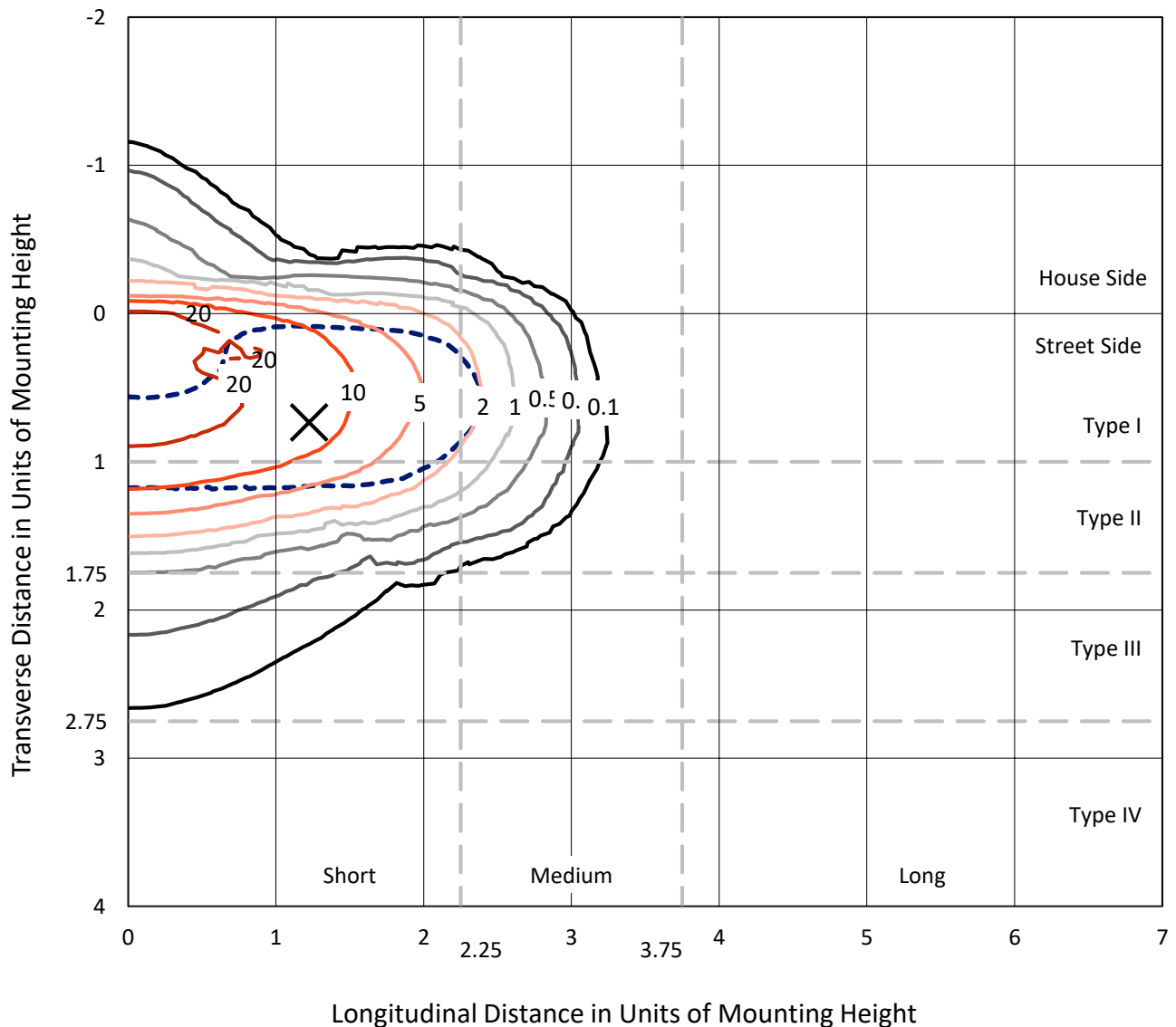


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

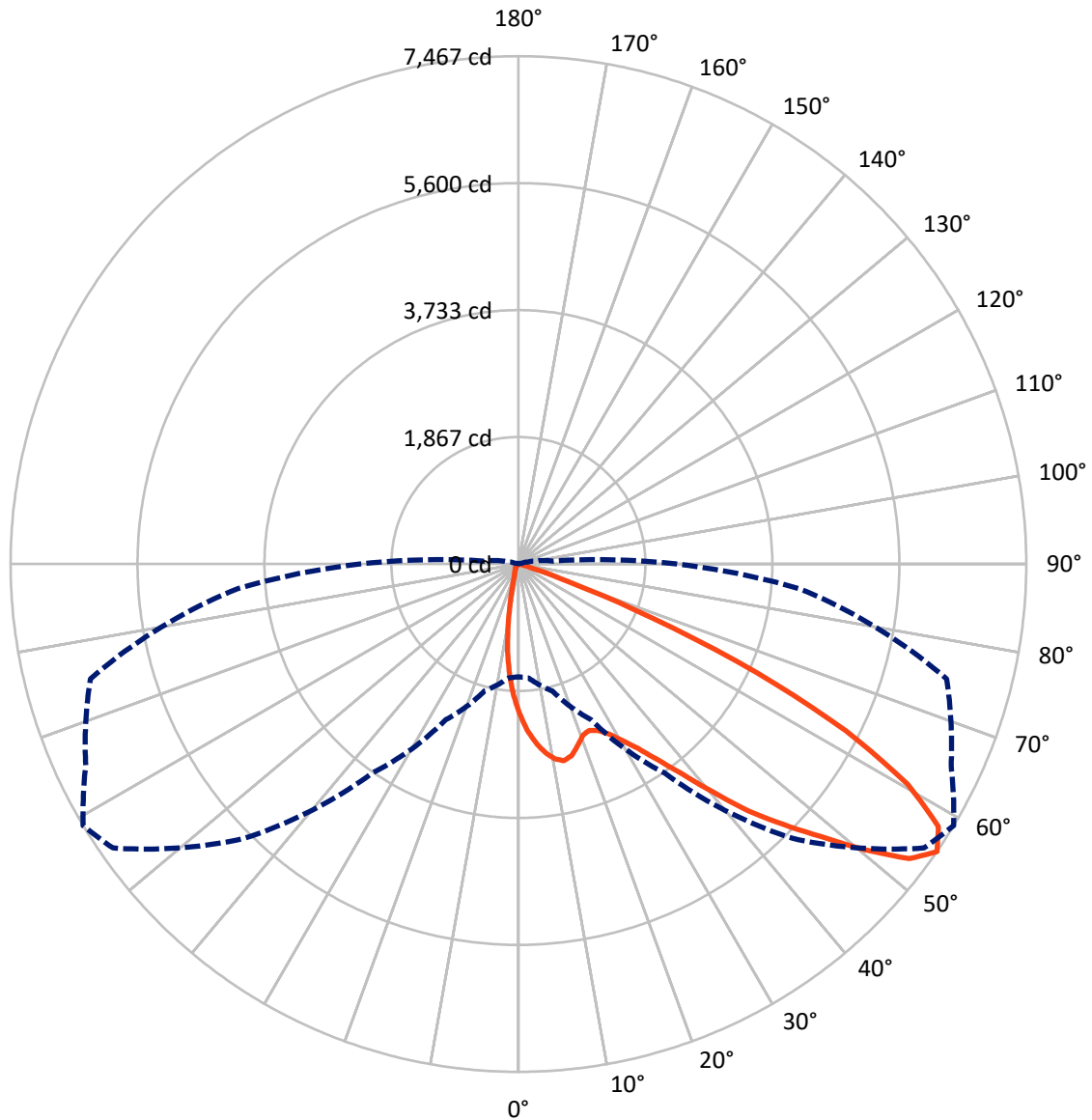


Based on 10 foot mounting height. Maximum calculated value = 27.4 fc
 Type II - Short - Full Cutoff

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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	436.3	0.0	436.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	7375.4	0.0	7375.4
	% Fixture	94.4	0.0	94.4
Total	Lumens	7811.8	0.0	7811.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.2	2.4
10°-20°	441.0	5.6
20°-30°	750.4	9.6
30°-40°	1290.5	16.5
40°-50°	1992.4	25.5
50°-60°	2003.0	25.6
60°-70°	1027.2	13.1
70°-80°	111.3	1.4
80°-90°	11.6	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°	7811.8	100.0
0°-180°	7811.8	100.0



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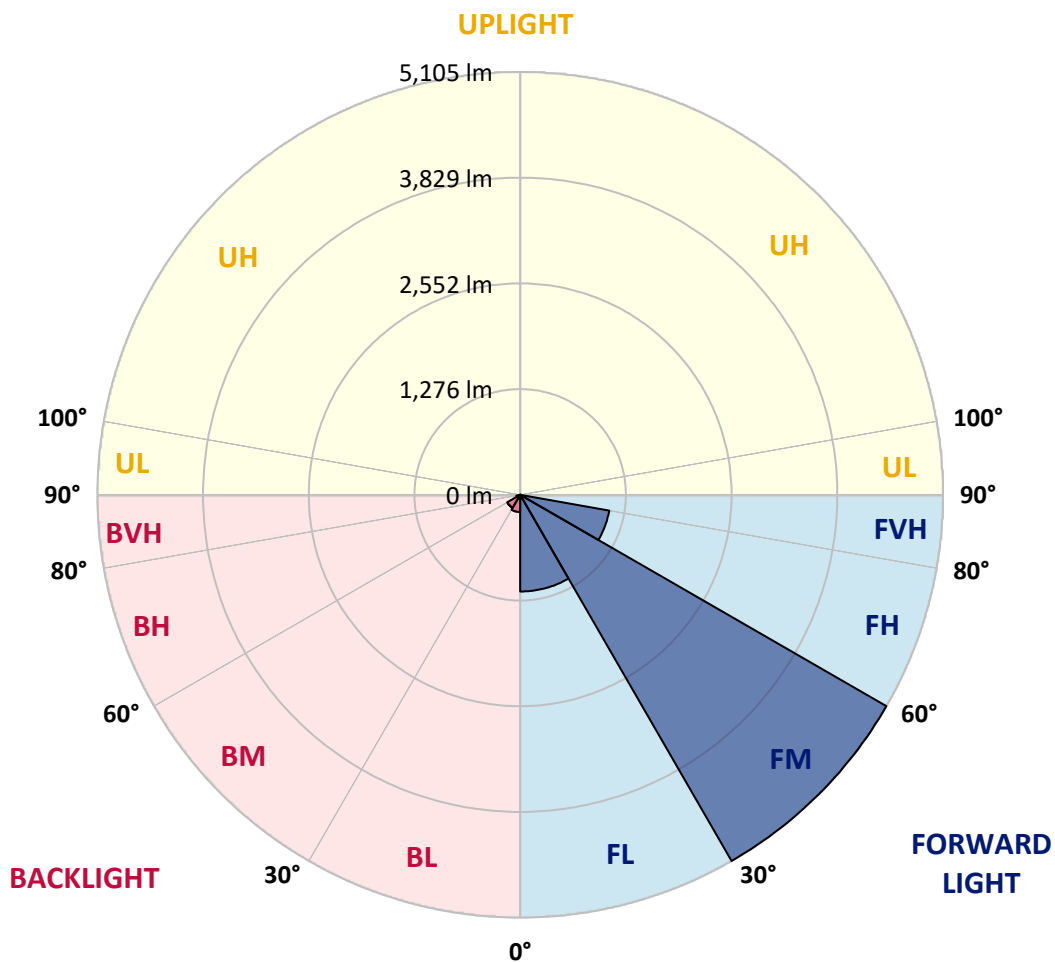
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1167.3	14.9			
FM	(30°-60°)	5105.0	65.3			
FH	(60°-80°)	1091.7	14.0			G1/1800
FVH	(80°-90°)	11.4	0.1			G1/100
BL	(0°-30°)	208.3	2.7	B1/500		
BM	(30°-60°)	181.1	2.3	B0/220		
BH	(60°-80°)	46.7	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	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°	2199.0	2199.0	2199.0	2199.0	2199.0	2199.0	2199.0	2199.0	2199.0	2199.0	2199.0
2.5°	2601.9	2574.2	2566.0	2560.4	2535.0	2503.2	2460.0	2439.7	2398.1	2331.3	2249.2
5°	2840.3	2835.1	2816.8	2806.6	2779.4	2734.2	2665.1	2631.8	2566.0	2453.4	2306.4
7.5°	2736.1	2767.9	2793.2	2835.7	2889.0	2887.2	2829.2	2794.6	2720.8	2572.4	2370.1
10°	2333.6	2359.4	2400.9	2497.2	2693.7	2866.9	2935.2	2910.3	2851.3	2681.6	2431.3
12.5°	2254.8	2252.0	2259.3	2287.5	2390.2	2637.4	2917.2	2967.5	2955.5	2781.6	2489.4
15°	2296.7	2293.5	2292.6	2302.3	2327.1	2431.3	2782.2	2926.4	3019.1	2874.3	2538.7
17.5°	2414.3	2400.4	2393.0	2385.2	2377.9	2403.7	2619.9	2811.6	3028.8	2955.5	2579.7
20°	2615.7	2592.7	2565.4	2521.2	2479.7	2466.8	2551.7	2693.7	2994.2	3017.3	2606.5
22.5°	2868.9	2839.3	2792.3	2711.6	2627.3	2578.4	2585.3	2656.3	2942.5	3084.5	2618.9
25°	3153.3	3115.5	3052.7	2940.7	2816.8	2730.1	2684.9	2709.8	2919.0	3163.4	2633.2
27.5°	3458.0	3416.0	3333.9	3181.4	3040.8	2923.6	2831.5	2828.3	2959.2	3266.7	2656.3
30°	3759.9	3753.5	3646.5	3485.2	3298.9	3156.5	3023.7	3006.7	3071.2	3409.5	2701.9
32.5°	4162.9	4114.5	3983.5	3817.6	3602.8	3431.7	3274.5	3234.9	3243.2	3576.0	2772.5
35°	4670.8	4617.9	4433.5	4204.4	3964.2	3762.3	3588.5	3534.5	3514.3	3848.4	2891.4
37.5°	4999.1	4998.2	4882.4	4649.2	4391.5	4168.8	3979.9	3916.7	3875.7	4177.6	3075.8
40°	5007.9	5029.6	5044.7	5042.5	4859.0	4653.9	4486.0	4408.1	4312.6	4617.3	3314.2
42.5°	4739.1	4794.9	4929.0	5156.7	5265.5	5183.9	5042.5	4965.9	4823.9	5088.1	3604.6
45°	4375.8	4414.6	4649.2	5068.7	5485.9	5709.5	5601.6	5464.7	5277.6	5579.1	3865.1
47.5°	4213.1	4220.0	4371.7	4832.3	5502.5	6140.1	6205.6	5982.9	5689.7	5974.5	4068.8
50°	3726.7	3739.2	3948.5	4422.4	5308.0	6343.4	6812.2	6601.0	6139.2	6279.3	4143.0
52.5°	2808.9	2826.4	3091.9	3748.8	4773.2	6256.7	7246.5	7195.3	6631.5	6428.2	4147.2
55°	1657.3	1680.4	1933.9	2523.5	3754.4	5705.4	7278.8	7466.9	7020.1	6516.3	4140.7
57.5°	774.0	790.2	935.4	1300.1	2334.9	4509.1	6792.9	7280.6	7234.5	6562.8	4186.3
60°	411.3	415.8	450.9	562.9	1055.3	2859.1	5844.6	6574.3	7039.1	6627.4	4242.2
62.5°	314.4	315.8	314.0	327.3	443.5	1269.1	4417.8	5404.7	6252.1	6578.9	4180.4
65°	272.5	274.7	261.9	258.6	284.4	452.7	2624.5	3852.6	4912.9	5925.7	3759.5
67.5°	244.4	245.2	229.5	216.2	220.8	244.8	1035.4	2109.1	3251.9	4343.6	2724.9
70°	225.0	224.1	207.0	185.8	179.8	167.3	329.2	773.1	1554.1	2202.7	1267.3
72.5°	199.1	199.6	191.3	163.7	149.4	117.1	152.6	225.4	463.8	600.2	296.9
75°	176.6	174.2	164.1	146.6	123.1	77.0	75.6	100.5	143.0	142.0	64.1
77.5°	127.7	125.3	128.6	120.3	94.5	49.8	37.8	48.4	58.1	56.3	17.9
80°	93.6	92.2	83.0	100.0	83.5	34.2	23.5	25.8	30.0	25.3	5.6
82.5°	64.1	63.6	58.5	55.3	47.5	20.7	14.7	16.1	19.3	14.3	2.8
85°	10.1	11.5	42.4	33.6	28.1	9.2	10.1	11.1	12.9	7.8	1.0
87.5°	0.0	0.0	19.9	17.5	5.6	3.7	6.0	6.4	6.4	4.2	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°	2199.0	2199.0	2199.0	2199.0	2199.0	2199.0	2199.0	2199.0	2199.0	2199.0	2199.0
2.5°	2207.2	2161.1	2075.9	1987.8	1906.3	1809.0	1742.1	1691.9	1633.8	1618.1	1652.2
5°	2222.5	2135.4	1951.9	1752.2	1564.6	1356.8	1197.7	1071.8	958.0	919.2	954.3
7.5°	2246.4	2116.9	1817.8	1489.0	1162.7	838.1	615.9	469.8	376.7	349.0	363.7
10°	2270.5	2090.1	1662.3	1177.4	731.1	407.9	265.5	212.0	192.3	188.1	190.4
12.5°	2290.2	2054.3	1472.9	837.1	391.0	218.5	173.8	165.1	162.3	162.3	163.2
15°	2302.3	1999.8	1248.4	532.4	225.0	165.1	151.7	148.9	148.9	149.4	150.3
17.5°	2300.9	1930.6	1002.6	322.2	168.3	146.2	138.3	136.0	135.5	136.4	136.9
20°	2283.8	1840.3	756.0	212.6	146.6	133.2	125.3	121.3	120.8	121.7	122.7
22.5°	2251.6	1728.7	540.8	163.7	132.3	120.8	111.1	107.4	107.4	108.4	109.2
25°	2212.4	1592.3	369.7	138.8	119.4	107.4	98.2	94.9	95.9	98.2	98.7
27.5°	2163.5	1438.8	251.2	118.9	103.8	94.1	87.1	84.9	87.1	90.3	91.3
30°	2121.5	1278.8	179.4	102.8	88.1	81.1	77.0	77.0	80.2	86.2	87.5
32.5°	2089.3	1123.9	138.3	90.9	76.5	70.6	68.2	70.6	75.6	81.6	83.0
35°	2085.1	996.2	117.1	81.1	68.2	62.2	61.3	65.4	70.6	75.2	76.0
37.5°	2116.9	878.2	105.6	73.3	60.9	55.3	54.3	59.5	64.6	70.0	71.4
40°	2177.4	785.6	97.3	65.9	54.9	48.9	47.0	50.7	57.7	65.0	66.8
42.5°	2255.7	709.0	88.1	58.5	48.9	40.6	38.2	42.4	49.8	57.7	59.9
45°	2330.3	643.0	77.9	50.3	41.0	31.4	30.4	36.0	39.6	47.5	49.3
47.5°	2371.3	585.0	69.2	41.0	31.8	25.3	25.3	26.7	30.4	39.6	41.5
50°	2357.6	538.4	59.9	30.4	22.1	19.3	19.3	18.9	24.4	31.8	33.2
52.5°	2329.9	511.7	51.7	23.5	15.3	13.9	12.5	13.9	17.1	20.3	20.7
55°	2325.8	507.1	43.3	18.9	10.6	9.2	6.9	6.9	6.9	6.4	5.6
57.5°	2358.0	514.5	36.4	15.3	7.8	6.0	3.7	0.0	0.0	0.0	0.0
60°	2391.2	522.3	31.4	10.6	5.6	3.2	0.4	0.0	0.0	0.0	0.0
62.5°	2335.9	504.8	26.3	6.4	4.2	1.4	0.0	0.0	0.0	0.0	0.0
65°	2051.9	429.6	20.7	4.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1459.6	287.6	13.9	2.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	666.1	120.3	8.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	142.4	37.4	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	29.0	27.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.2	42.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.6	30.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.0	4.6	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)