

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: P300667

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300667
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-02-LED-E1-AFL-7030-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 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: 7077.5 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 85
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

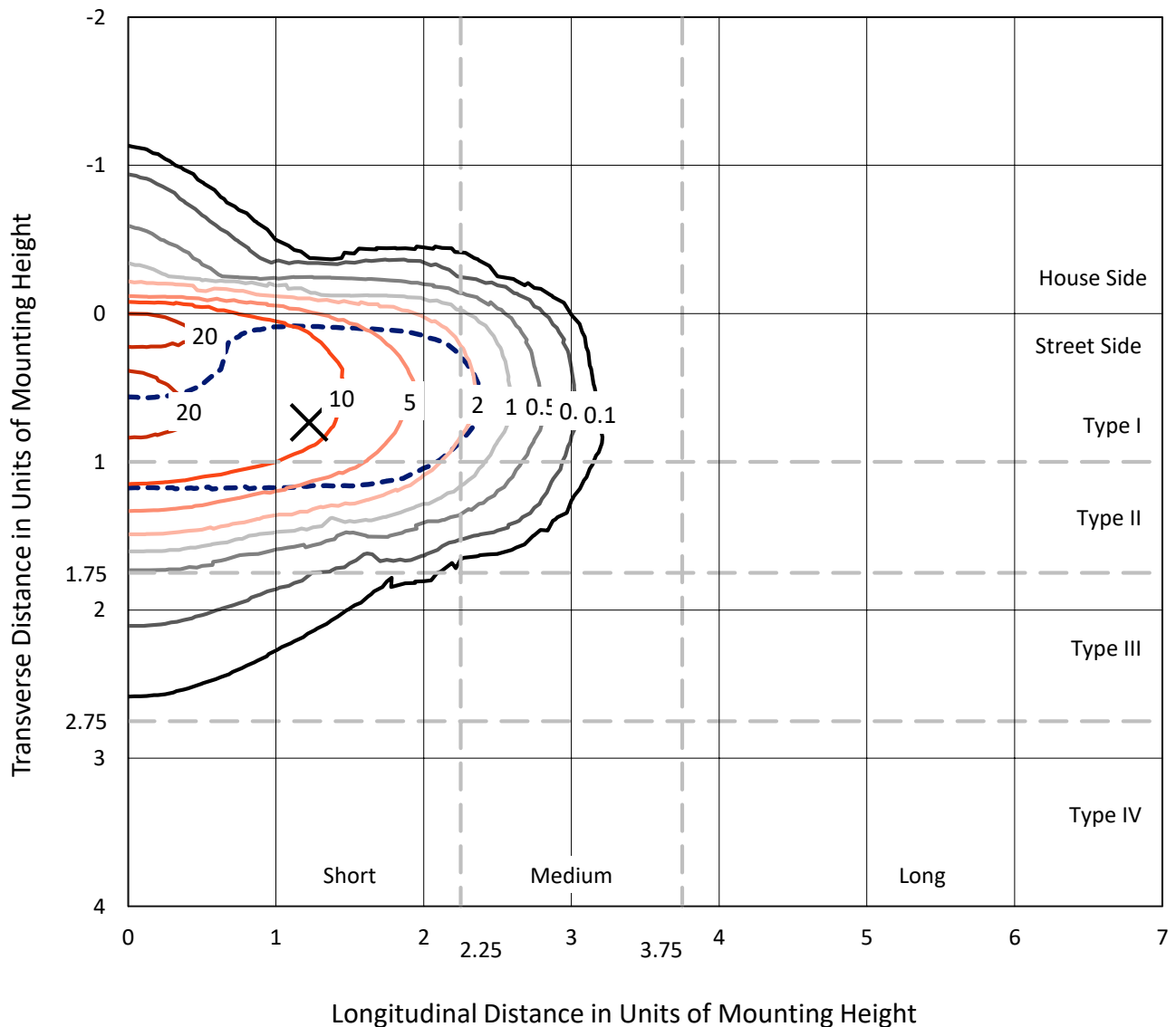


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

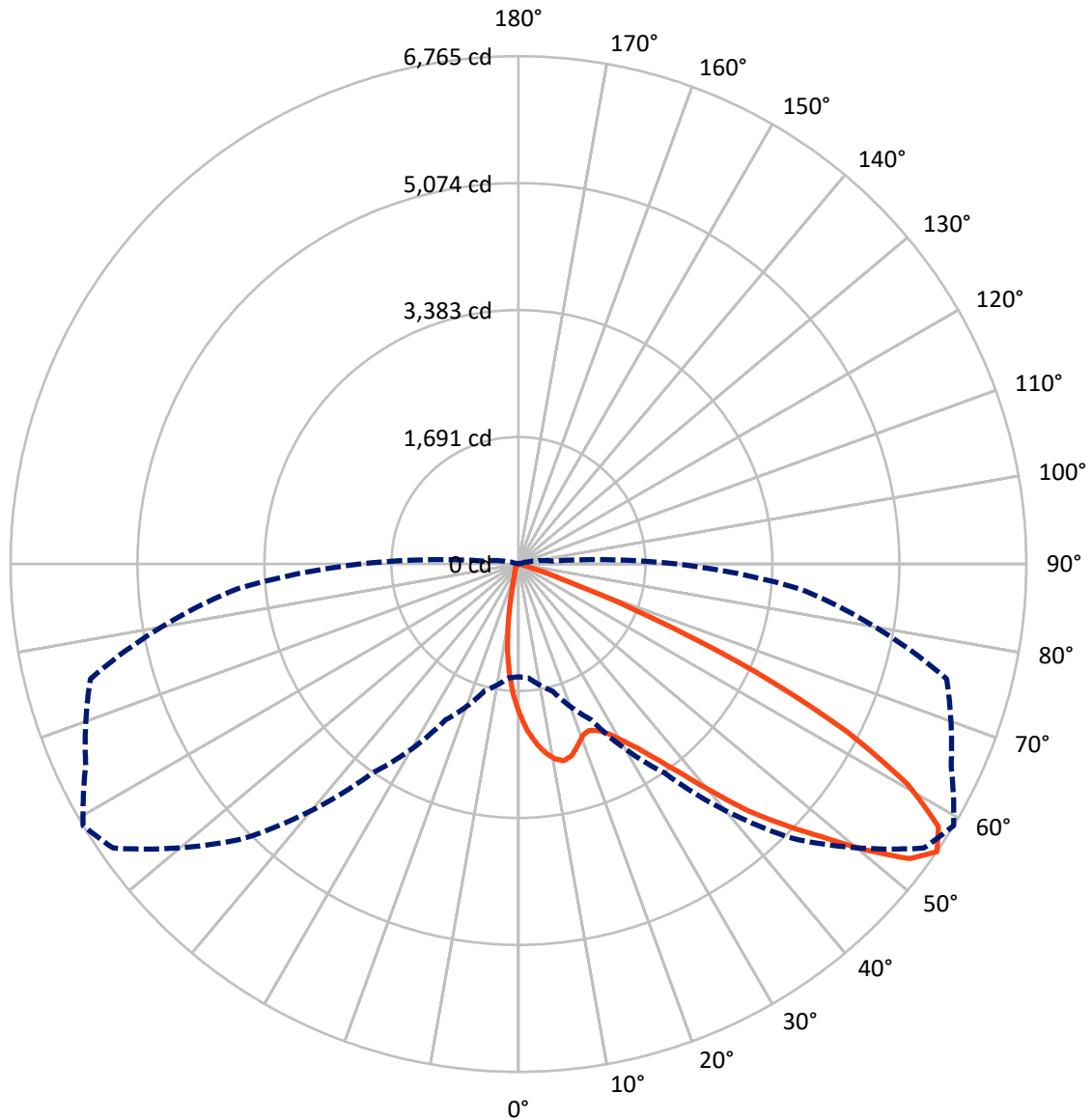


Based on 10 foot mounting height. Maximum calculated value = 24.8 fc
 Type II - Short - Full Cutoff

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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	395.3	0.0	395.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	6682.2	0.0	6682.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	7077.5	0.0	7077.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	2.4
10°-20°	399.5	5.6
20°-30°	679.9	9.6
30°-40°	1169.2	16.5
40°-50°	1805.2	25.5
50°-60°	1814.8	25.6
60°-70°	930.6	13.1
70°-80°	100.9	1.4
80°-90°	10.5	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°	7077.5	100.0
0°-180°	7077.5	100.0



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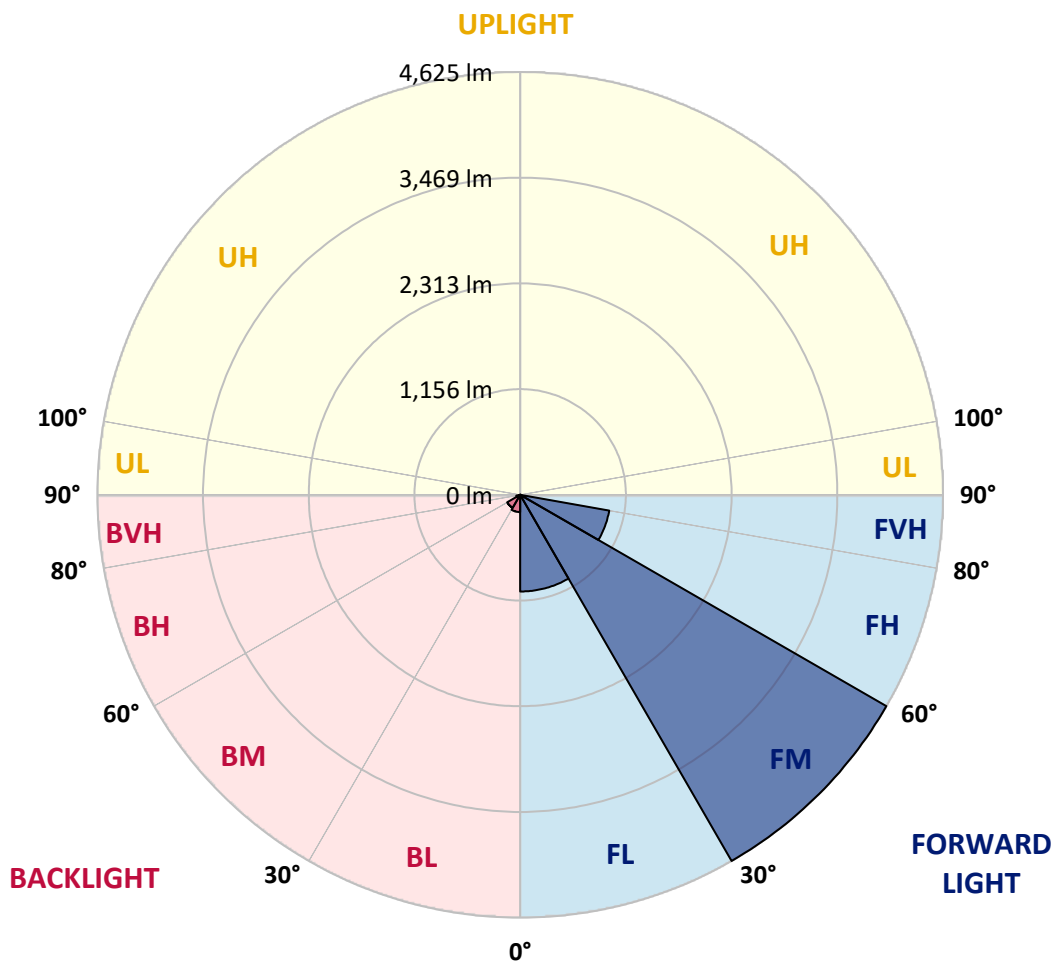
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1057.6	14.9			
FM	(30°-60°)	4625.1	65.3			
FH	(60°-80°)	989.1	14.0			G1/1800
FVH	(80°-90°)	10.3	0.1			G1/100
BL	(0°-30°)	188.7	2.7	B1/500		
BM	(30°-60°)	164.1	2.3	B0/220		
BH	(60°-80°)	42.3	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°	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3
2.5°	2357.3	2332.3	2324.8	2319.8	2296.8	2268.0	2228.7	2210.3	2172.7	2112.2	2037.8
5°	2573.3	2568.7	2552.0	2542.8	2518.1	2477.2	2414.6	2384.5	2324.8	2222.9	2089.6
7.5°	2478.9	2507.7	2530.7	2569.1	2617.6	2615.9	2563.3	2531.9	2465.1	2330.6	2147.3
10°	2114.3	2137.6	2175.2	2262.5	2440.5	2597.5	2659.3	2636.8	2583.3	2429.6	2202.8
12.5°	2042.8	2040.3	2047.0	2072.5	2165.6	2389.5	2643.0	2688.6	2677.7	2520.2	2255.4
15°	2080.8	2077.9	2077.1	2085.9	2108.4	2202.8	2520.7	2651.4	2735.3	2604.2	2300.1
17.5°	2187.3	2174.8	2168.1	2161.0	2154.4	2177.7	2373.6	2547.4	2744.1	2677.7	2337.3
20°	2369.9	2349.0	2324.3	2284.2	2246.7	2235.0	2311.8	2440.5	2712.8	2733.7	2361.5
22.5°	2599.2	2572.4	2529.8	2456.7	2380.3	2336.0	2342.3	2406.6	2666.0	2794.6	2372.8
25°	2856.9	2822.6	2765.8	2664.3	2552.0	2473.5	2432.5	2455.1	2644.7	2866.1	2385.7
27.5°	3133.0	3095.0	3020.6	2882.4	2755.0	2648.9	2565.3	2562.4	2681.0	2959.6	2406.6
30°	3406.5	3400.7	3303.8	3157.6	2988.9	2859.8	2739.5	2724.1	2782.5	3089.1	2448.0
32.5°	3771.6	3727.7	3609.1	3458.7	3264.1	3109.2	2966.7	2930.8	2938.3	3239.9	2511.9
35°	4231.9	4183.8	4016.8	3809.2	3591.6	3408.6	3251.2	3202.3	3183.9	3486.7	2619.6
37.5°	4529.2	4528.4	4423.6	4212.2	3978.7	3777.0	3605.8	3548.5	3511.4	3784.9	2786.7
40°	4537.2	4556.8	4570.6	4568.5	4402.3	4216.4	4064.4	3993.8	3907.3	4183.4	3002.6
42.5°	4293.7	4344.2	4465.8	4672.1	4770.7	4696.7	4568.5	4499.2	4370.5	4609.8	3265.8
45°	3964.5	3999.6	4212.2	4592.3	4970.3	5172.9	5075.1	4951.1	4781.5	5054.7	3501.8
47.5°	3817.1	3823.4	3960.8	4378.0	4985.3	5563.0	5622.3	5420.6	5154.9	5413.0	3686.4
50°	3376.5	3387.7	3577.4	4006.7	4809.1	5747.2	6171.9	5980.6	5562.1	5689.1	3753.6
52.5°	2544.9	2560.7	2801.3	3396.5	4324.6	5668.6	6565.4	6519.0	6008.2	5824.0	3757.4
55°	1501.5	1522.4	1752.1	2286.3	3401.5	5169.1	6594.6	6765.0	6360.3	5903.8	3751.5
57.5°	701.3	715.9	847.5	1177.8	2115.5	4085.3	6154.4	6596.3	6554.5	5946.0	3792.9
60°	372.6	376.7	408.5	510.0	956.1	2590.4	5295.2	5956.4	6377.4	6004.5	3843.4
62.5°	284.9	286.1	284.4	296.5	401.8	1149.9	4002.6	4896.8	5664.5	5960.6	3787.5
65°	246.8	248.9	237.2	234.3	257.7	410.2	2377.8	3490.5	4451.1	5368.8	3406.1
67.5°	221.4	222.2	208.0	195.9	200.1	221.8	938.1	1910.9	2946.3	3935.3	2468.9
70°	203.8	203.0	187.5	168.3	162.9	151.6	298.2	700.4	1408.0	1995.6	1148.2
72.5°	180.4	180.9	173.3	148.3	135.3	106.1	138.2	204.2	420.2	543.8	269.0
75°	160.0	157.9	148.7	132.8	111.5	69.8	68.5	91.1	129.5	128.6	58.1
77.5°	115.7	113.6	116.5	109.0	85.6	45.1	34.2	43.9	52.6	51.0	16.3
80°	84.8	83.5	75.2	90.6	75.6	30.9	21.3	23.4	27.1	23.0	5.0
82.5°	58.1	57.6	53.0	50.1	43.0	18.8	13.4	14.6	17.5	12.9	2.5
85°	9.2	10.4	38.4	30.5	25.5	8.4	9.2	10.0	11.7	7.1	0.8
87.5°	0.0	0.0	18.0	15.9	5.0	3.3	5.4	5.8	5.8	3.8	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°	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3	1992.3
2.5°	1999.8	1958.0	1880.8	1801.0	1727.1	1638.9	1578.4	1532.9	1480.2	1466.0	1496.9
5°	2013.6	1934.7	1768.4	1587.6	1417.6	1229.2	1085.1	971.1	867.9	832.8	864.6
7.5°	2035.3	1918.0	1646.9	1349.1	1053.4	759.3	558.0	425.6	341.2	316.2	329.5
10°	2057.0	1893.7	1506.1	1066.7	662.4	369.6	240.6	192.1	174.2	170.4	172.5
12.5°	2075.0	1861.1	1334.5	758.5	354.2	198.0	157.5	149.5	147.0	147.0	147.9
15°	2085.9	1811.9	1131.1	482.4	203.8	149.5	137.4	134.9	134.9	135.3	136.2
17.5°	2084.6	1749.2	908.4	292.0	152.5	132.4	125.3	123.2	122.8	123.6	124.0
20°	2069.1	1667.3	685.0	192.5	132.8	120.7	113.6	109.8	109.4	110.3	111.1
22.5°	2039.9	1566.3	489.9	148.3	119.9	109.4	100.7	97.3	97.3	98.2	99.0
25°	2004.4	1442.6	335.0	125.7	108.2	97.3	89.0	86.0	86.9	89.0	89.4
27.5°	1960.1	1303.6	227.6	107.8	94.0	85.2	78.9	76.9	78.9	81.9	82.7
30°	1922.1	1158.6	162.5	93.1	79.8	73.5	69.8	69.8	72.7	78.1	79.4
32.5°	1892.9	1018.3	125.3	82.3	69.3	63.9	61.8	63.9	68.5	73.9	75.2
35°	1889.1	902.6	106.1	73.5	61.8	56.4	55.6	59.3	63.9	68.1	68.9
37.5°	1918.0	795.7	95.6	66.4	55.1	50.1	49.3	53.9	58.5	63.5	64.7
40°	1972.7	711.7	88.1	59.7	49.7	44.3	42.6	45.9	52.2	58.9	60.6
42.5°	2043.7	642.4	79.8	53.0	44.3	36.8	34.7	38.4	45.1	52.2	54.3
45°	2111.3	582.7	70.6	45.5	37.2	28.4	27.6	32.6	35.9	43.0	44.7
47.5°	2148.5	530.0	62.7	37.2	28.8	23.0	23.0	24.2	27.6	35.9	37.6
50°	2136.0	487.8	54.3	27.6	20.0	17.5	17.5	17.1	22.1	28.8	30.1
52.5°	2110.9	463.6	46.8	21.3	13.8	12.5	11.3	12.5	15.5	18.4	18.8
55°	2107.2	459.4	39.3	17.1	9.6	8.4	6.3	6.3	6.3	5.8	5.0
57.5°	2136.4	466.1	33.0	13.8	7.1	5.4	3.3	0.0	0.0	0.0	0.0
60°	2166.5	473.2	28.4	9.6	5.0	2.9	0.4	0.0	0.0	0.0	0.0
62.5°	2116.3	457.4	23.8	5.8	3.8	1.3	0.0	0.0	0.0	0.0	0.0
65°	1859.1	389.3	18.8	4.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1322.4	260.6	12.5	2.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	603.5	109.0	7.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	129.1	33.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	26.3	24.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.4	38.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.0	28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.8	4.2	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)