

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: P200566

Luminaire Tested: **GPC-AF-02-LED-E1-AFL-8030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200566  
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: GPC-AF-02-LED-E1-AFL-8030-800-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 80 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: 6704 lumens  
Efficiency: N/A  
Efficacy: 78.0 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

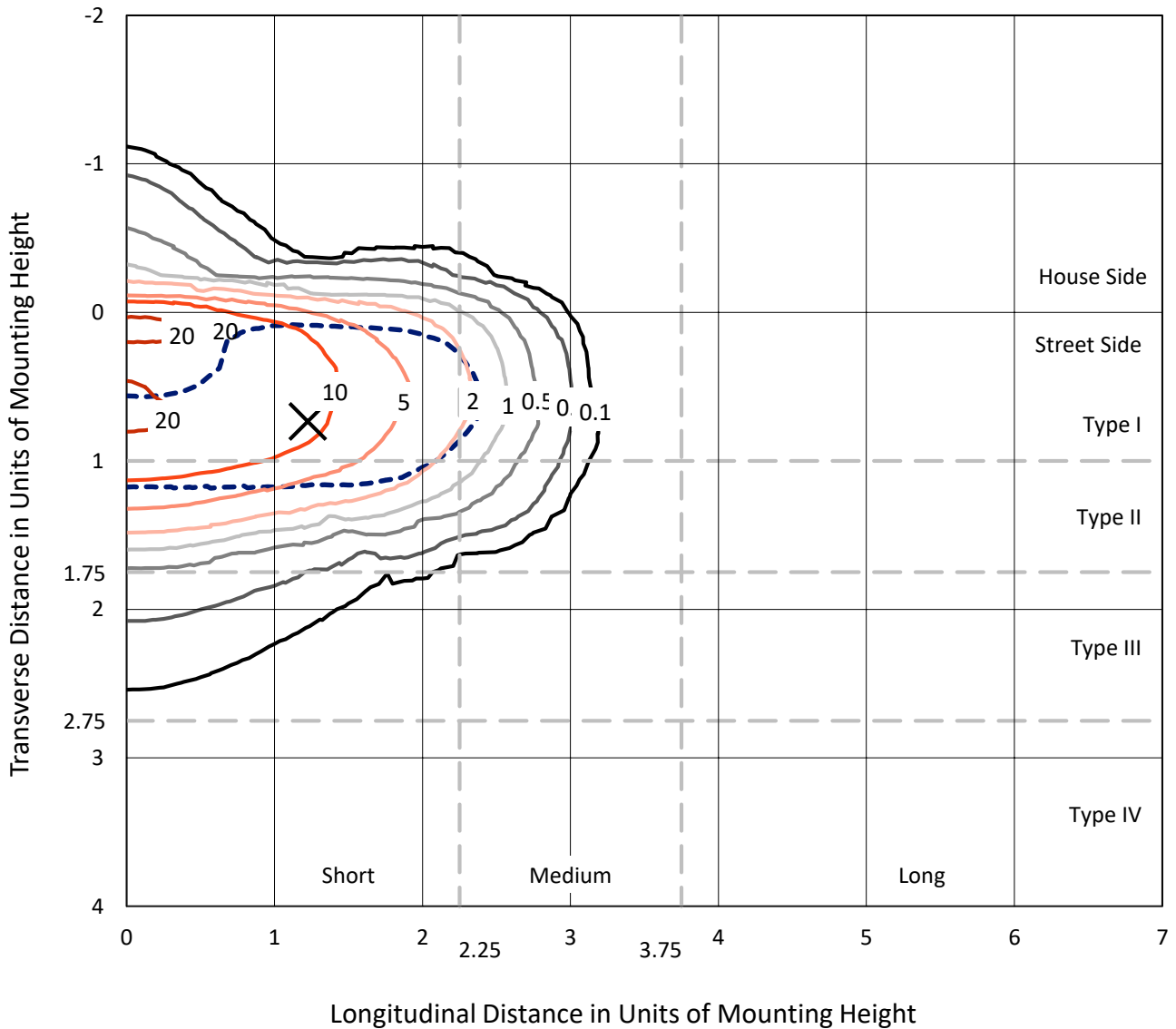


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

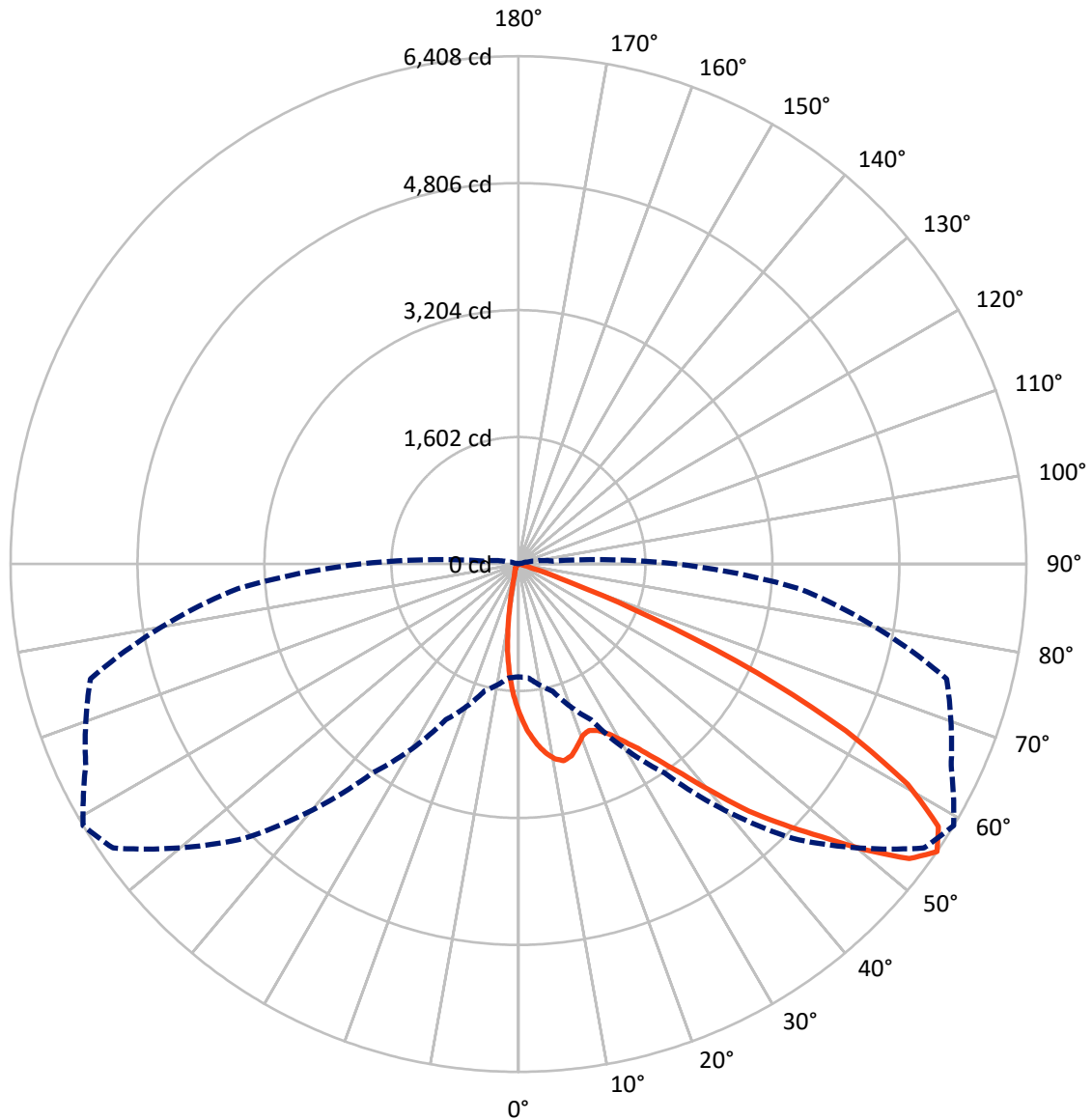


Based on 10 foot mounting height. Maximum calculated value = 23.5 fc  
 Type II - Short - Full Cutoff

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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
<b>House Side</b>	Lumens	374.5	0.0	374.5
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	6329.5	0.0	6329.5
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	6704.0	0.0	6704.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.1	2.4
10°-20°	378.5	5.6
20°-30°	644.0	9.6
30°-40°	1107.5	16.5
40°-50°	1709.9	25.5
50°-60°	1719.0	25.6
60°-70°	881.5	13.1
70°-80°	95.5	1.4
80°-90°	10.0	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°	6704.0	100.0
0°-180°	6704.0	100.0

**Coefficient of Utilization**



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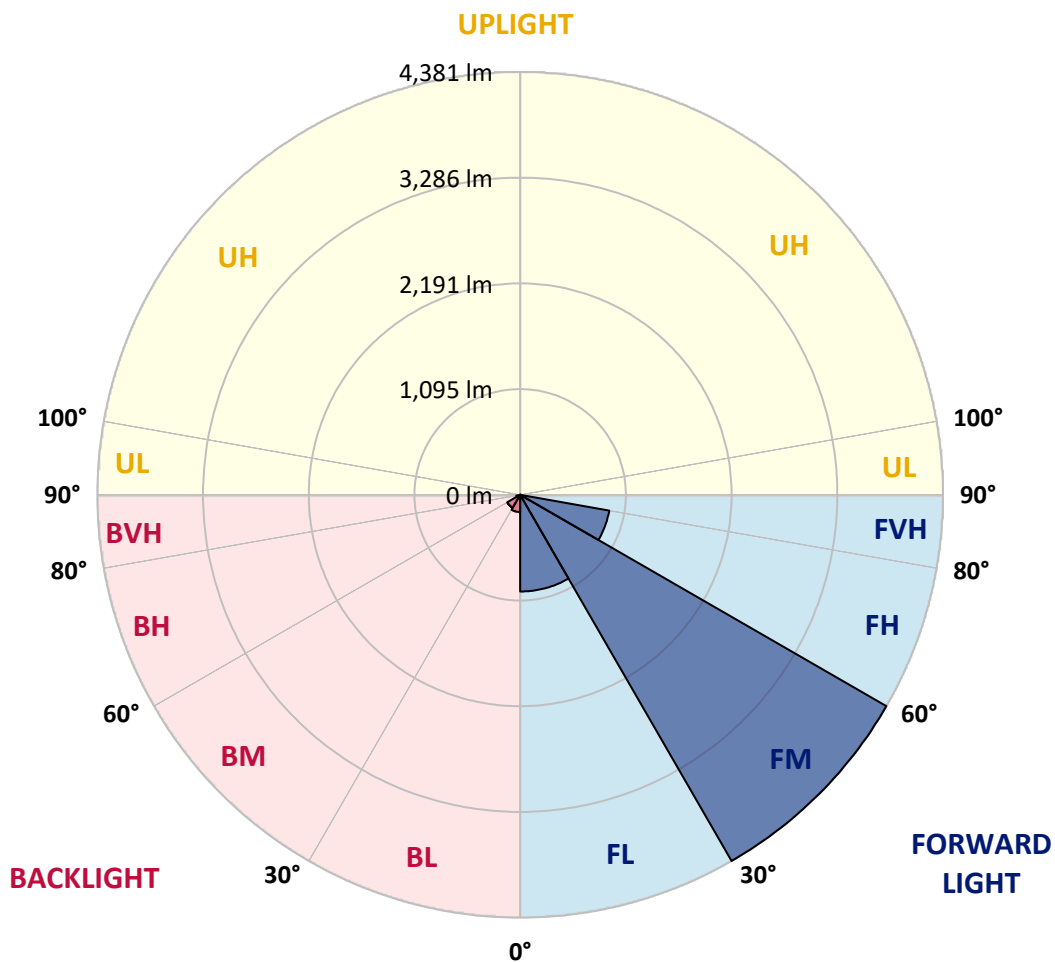
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1001.8	14.9			
FM	(30°-60°)	4381.0	65.3			
FH	(60°-80°)	936.9	14.0			G1/1800
FVH	(80°-90°)	9.8	0.1			G0/10
BL	(0°-30°)	178.7	2.7	B1/500		
BM	(30°-60°)	155.4	2.3	B0/220		
BH	(60°-80°)	40.1	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°	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2
2.5°	2232.9	2209.2	2202.1	2197.3	2175.6	2148.3	2111.1	2093.7	2058.1	2000.7	1930.3
5°	2437.5	2433.1	2417.3	2408.6	2385.2	2346.5	2287.1	2258.6	2202.1	2105.5	1979.3
7.5°	2348.1	2375.4	2397.1	2433.5	2479.4	2477.8	2428.0	2398.3	2335.0	2207.6	2033.9
10°	2002.7	2024.8	2060.4	2143.1	2311.7	2460.4	2519.0	2497.6	2447.0	2301.4	2086.5
12.5°	1935.0	1932.6	1939.0	1963.1	2051.3	2263.4	2503.5	2546.7	2536.4	2387.2	2136.4
15°	1971.0	1968.3	1967.5	1975.8	1997.1	2086.5	2387.6	2511.5	2591.0	2466.7	2178.7
17.5°	2071.9	2060.0	2053.7	2047.0	2040.7	2062.8	2248.4	2412.9	2599.3	2536.4	2213.9
20°	2244.8	2225.0	2201.7	2163.7	2128.1	2117.0	2189.8	2311.7	2569.6	2589.4	2236.9
22.5°	2462.0	2436.7	2396.3	2327.1	2254.7	2212.8	2218.7	2279.6	2525.3	2647.2	2247.6
25°	2706.1	2673.7	2619.9	2523.7	2417.3	2342.9	2304.1	2325.5	2505.1	2714.8	2259.8
27.5°	2967.6	2931.6	2861.2	2730.2	2609.6	2509.1	2430.0	2427.2	2539.5	2803.4	2279.6
30°	3226.8	3221.2	3129.4	2991.0	2831.1	2708.9	2594.9	2580.3	2635.7	2926.1	2318.8
32.5°	3572.5	3531.0	3418.6	3276.2	3091.8	2945.1	2810.2	2776.1	2783.3	3068.9	2379.3
35°	4008.5	3963.0	3804.8	3608.1	3402.0	3228.7	3079.6	3033.3	3015.9	3302.7	2481.4
37.5°	4290.2	4289.4	4190.1	3989.9	3768.8	3577.7	3415.5	3361.3	3326.1	3585.2	2639.6
40°	4297.7	4316.3	4329.4	4327.4	4169.9	3993.9	3849.9	3783.0	3701.1	3962.6	2844.2
42.5°	4067.1	4114.9	4230.1	4425.5	4518.9	4448.9	4327.4	4261.7	4139.9	4366.6	3093.4
45°	3755.3	3788.5	3989.9	4349.9	4708.0	4899.9	4807.3	4689.8	4529.2	4787.9	3317.0
47.5°	3615.7	3621.6	3751.8	4147.0	4722.2	5269.4	5325.6	5134.5	4882.9	5127.4	3491.8
50°	3198.3	3208.9	3388.6	3795.3	4555.3	5443.9	5846.2	5665.0	5268.6	5388.9	3555.5
52.5°	2410.6	2425.6	2653.5	3217.3	4096.3	5369.5	6218.9	6175.0	5691.1	5516.7	3559.1
55°	1422.3	1442.1	1659.7	2165.7	3222.0	4896.3	6246.6	6408.0	6024.6	5592.2	3553.5
57.5°	664.3	678.1	802.7	1115.7	2003.9	3869.7	5829.6	6248.2	6208.6	5632.2	3592.7
60°	352.9	356.9	386.9	483.1	905.6	2453.7	5015.8	5642.1	6040.9	5687.6	3640.6
62.5°	269.8	271.0	269.4	280.9	380.6	1089.2	3791.3	4638.4	5365.5	5646.0	3587.6
65°	233.8	235.8	224.7	221.9	244.1	388.5	2252.3	3306.3	4216.2	5085.4	3226.4
67.5°	209.7	210.5	197.0	185.6	189.5	210.1	888.6	1810.0	2790.8	3727.6	2338.6
70°	193.1	192.3	177.6	159.4	154.3	143.6	282.5	663.5	1333.7	1890.3	1087.6
72.5°	170.9	171.3	164.2	140.4	128.2	100.5	131.0	193.5	398.0	515.1	254.8
75°	151.5	149.5	140.8	125.8	105.6	66.1	64.9	86.2	122.6	121.9	55.0
77.5°	109.6	107.6	110.4	103.3	81.1	42.7	32.4	41.5	49.8	48.3	15.4
80°	80.3	79.1	71.2	85.9	71.6	29.3	20.2	22.2	25.7	21.8	4.7
82.5°	55.0	54.6	50.2	47.5	40.7	17.8	12.7	13.8	16.6	12.3	2.4
85°	8.7	9.9	36.4	28.9	24.1	7.9	8.7	9.5	11.1	6.7	0.8
87.5°	0.0	0.0	17.0	15.0	4.7	3.2	5.1	5.5	5.5	3.6	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°	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2	1887.2
2.5°	1894.3	1854.7	1781.5	1706.0	1635.9	1552.4	1495.1	1452.0	1402.1	1388.7	1417.9
5°	1907.3	1832.6	1675.1	1503.8	1342.8	1164.3	1027.8	919.8	822.1	788.9	819.0
7.5°	1927.9	1816.7	1560.0	1277.9	997.8	719.3	528.6	403.1	323.2	299.5	312.2
10°	1948.5	1793.8	1426.6	1010.4	627.5	350.1	227.9	182.0	165.0	161.4	163.4
12.5°	1965.5	1762.9	1264.0	718.5	335.5	187.5	149.2	141.6	139.3	139.3	140.1
15°	1975.8	1716.2	1071.4	457.0	193.1	141.6	130.2	127.8	127.8	128.2	129.0
17.5°	1974.6	1656.9	860.5	276.5	144.4	125.4	118.7	116.7	116.3	117.1	117.5
20°	1959.9	1579.4	648.8	182.4	125.8	114.3	107.6	104.1	103.7	104.4	105.2
22.5°	1932.3	1483.6	464.1	140.4	113.5	103.7	95.3	92.2	92.2	93.0	93.8
25°	1898.6	1366.5	317.3	119.1	102.5	92.2	84.3	81.5	82.3	84.3	84.7
27.5°	1856.7	1234.8	215.6	102.1	89.0	80.7	74.8	72.8	74.8	77.5	78.3
30°	1820.7	1097.5	153.9	88.2	75.6	69.6	66.1	66.1	68.8	74.0	75.2
32.5°	1793.0	964.5	118.7	77.9	65.7	60.5	58.6	60.5	64.9	70.0	71.2
35°	1789.4	855.0	100.5	69.6	58.6	53.4	52.6	56.2	60.5	64.5	65.3
37.5°	1816.7	753.7	90.6	62.9	52.2	47.5	46.7	51.0	55.4	60.1	61.3
40°	1868.6	674.2	83.5	56.6	47.1	41.9	40.4	43.5	49.5	55.8	57.4
42.5°	1935.8	608.5	75.6	50.2	41.9	34.8	32.8	36.4	42.7	49.5	51.4
45°	1999.9	551.9	66.9	43.1	35.2	26.9	26.1	30.9	34.0	40.7	42.3
47.5°	2035.1	502.1	59.3	35.2	27.3	21.8	21.8	22.9	26.1	34.0	35.6
50°	2023.2	462.1	51.4	26.1	19.0	16.6	16.6	16.2	21.0	27.3	28.5
52.5°	1999.5	439.1	44.3	20.2	13.1	11.9	10.7	11.9	14.6	17.4	17.8
55°	1995.9	435.2	37.2	16.2	9.1	7.9	5.9	5.9	5.9	5.5	4.7
57.5°	2023.6	441.5	31.3	13.1	6.7	5.1	3.2	0.0	0.0	0.0	0.0
60°	2052.1	448.2	26.9	9.1	4.7	2.8	0.4	0.0	0.0	0.0	0.0
62.5°	2004.7	433.2	22.6	5.5	3.6	1.2	0.0	0.0	0.0	0.0	0.0
65°	1760.9	368.7	17.8	4.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1252.6	246.9	11.9	2.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	571.7	103.3	7.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	122.2	32.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	24.9	23.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.9	36.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.7	26.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.8	4.0	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)