

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: P200087

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200087  
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-01-LED-E1-AFL-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE 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: 5323.4 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

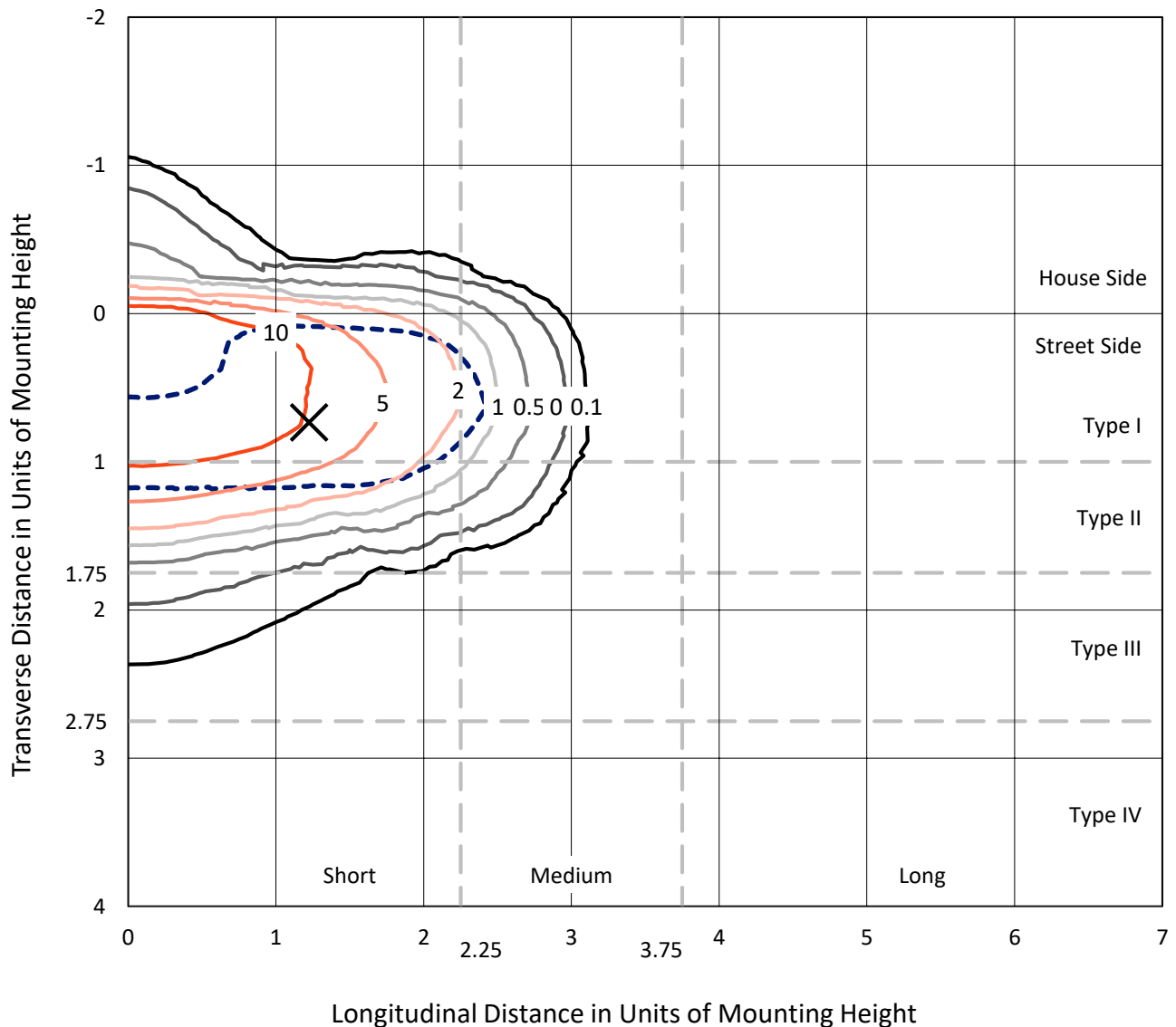
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

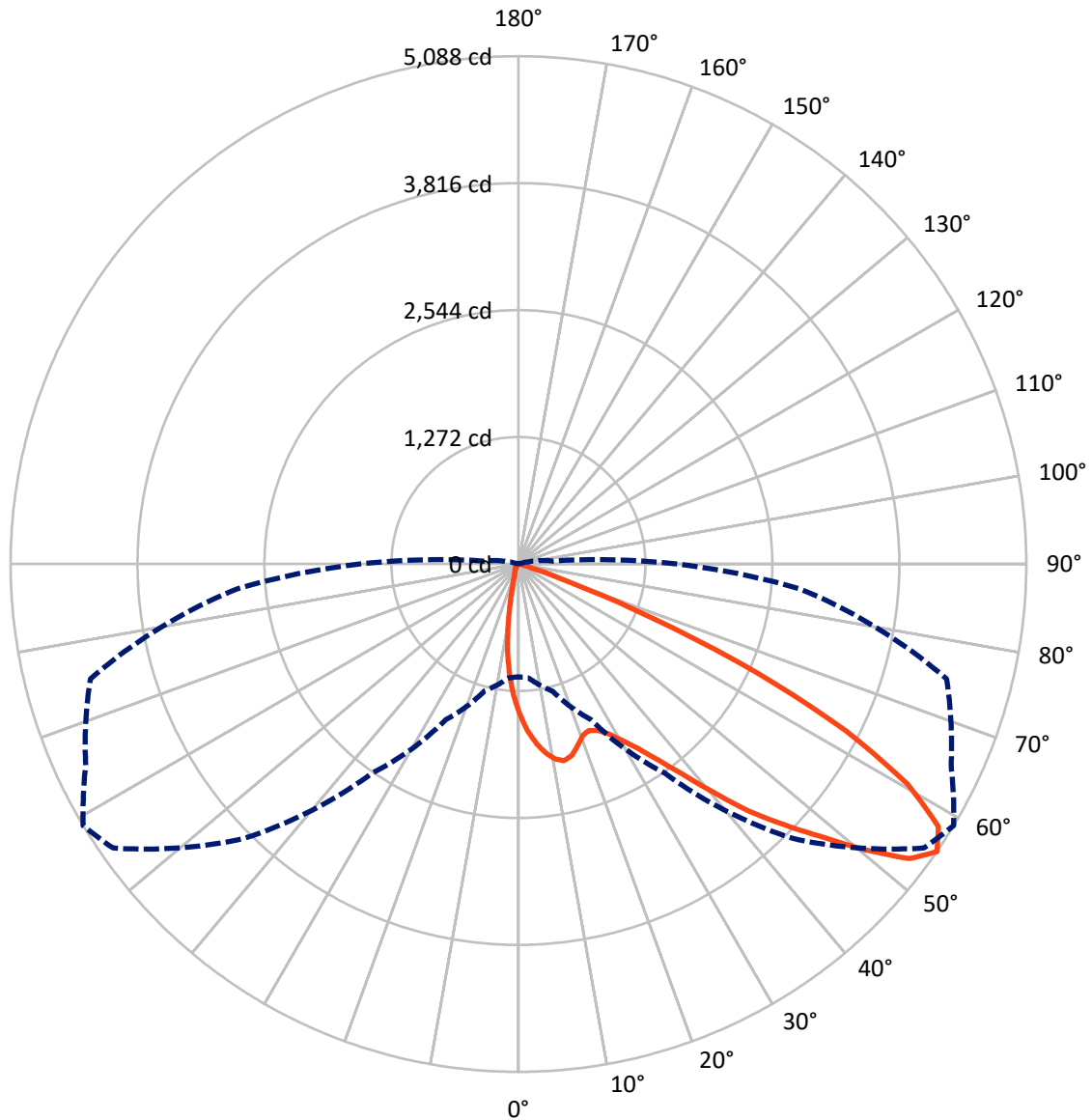
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.6 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	297.3	0.0	297.3
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	5026.1	0.0	5026.1
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	5323.4	0.0	5323.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.5	2.4
10°-20°	300.5	5.6
20°-30°	511.4	9.6
30°-40°	879.5	16.5
40°-50°	1357.8	25.5
50°-60°	1365.0	25.6
60°-70°	700.0	13.1
70°-80°	75.9	1.4
80°-90°	7.9	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°	5323.4	100.0
0°-180°	5323.4	100.0

**Coefficient of Utilization**



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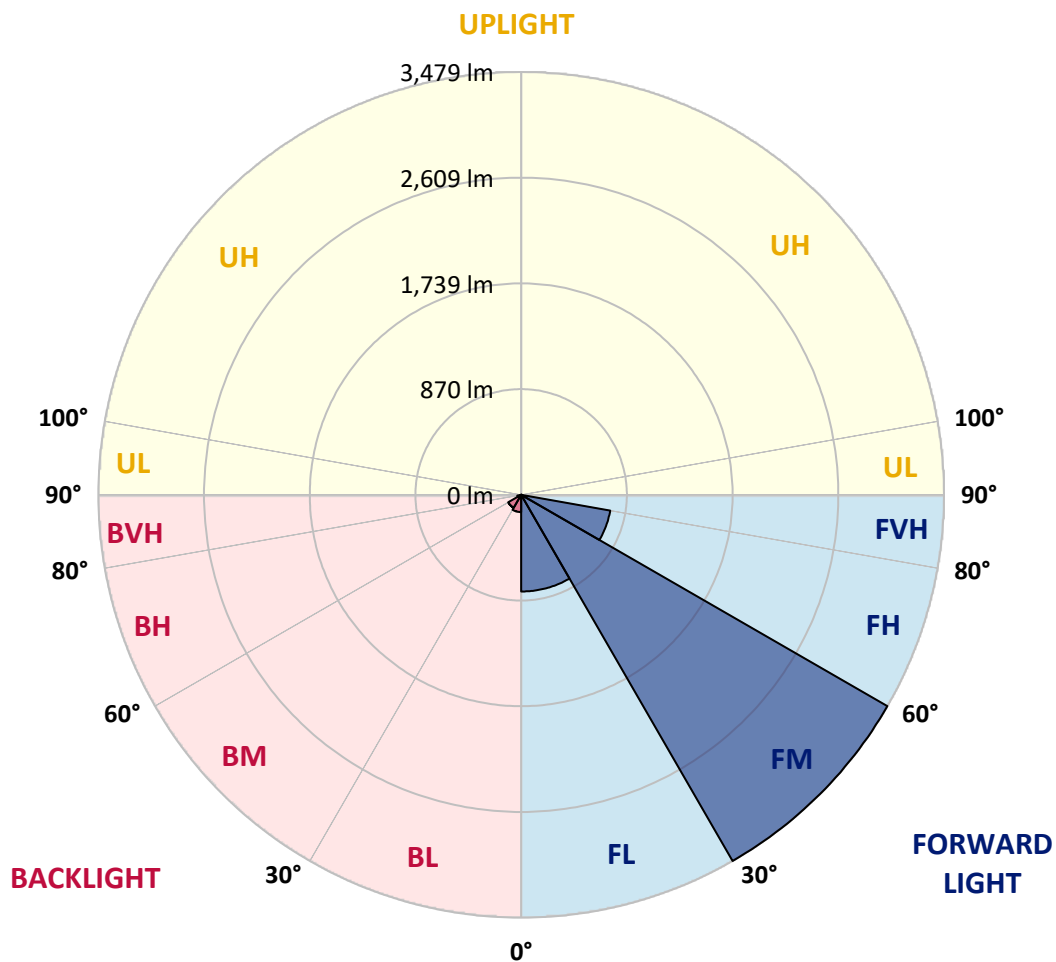
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	795.5	14.9			
FM	(30°-60°)	3478.8	65.3			
FH	(60°-80°)	744.0	14.0			G1/1800
FVH	(80°-90°)	7.8	0.1			G0/10
BL	(0°-30°)	141.9	2.7	B1/500		
BM	(30°-60°)	123.4	2.3	B0/220		
BH	(60°-80°)	31.9	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°	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5
2.5°	1773.1	1754.3	1748.6	1744.8	1727.6	1705.9	1676.3	1662.5	1634.3	1588.6	1532.8
5°	1935.5	1932.0	1919.5	1912.6	1894.1	1863.3	1816.1	1793.5	1748.6	1671.9	1571.8
7.5°	1864.5	1886.2	1903.5	1932.4	1968.8	1967.5	1928.0	1904.4	1854.2	1753.0	1615.0
10°	1590.3	1607.9	1636.1	1701.8	1835.6	1953.7	2000.3	1983.3	1943.1	1827.4	1656.9
12.5°	1536.6	1534.6	1539.6	1558.9	1628.9	1797.3	1988.0	2022.3	2014.1	1895.6	1696.5
15°	1565.1	1563.0	1562.4	1568.9	1585.9	1656.9	1895.9	1994.2	2057.5	1958.7	1730.0
17.5°	1645.2	1635.8	1630.8	1625.5	1620.5	1638.1	1785.4	1916.1	2064.0	2014.1	1758.0
20°	1782.5	1766.8	1748.3	1718.1	1689.8	1681.0	1738.8	1835.6	2040.5	2056.1	1776.3
22.5°	1955.0	1934.9	1902.9	1847.9	1790.4	1757.1	1761.8	1810.2	2005.3	2102.1	1784.7
25°	2148.8	2123.0	2080.4	2004.0	1919.5	1860.4	1829.6	1846.6	1989.2	2155.8	1794.5
27.5°	2356.5	2327.9	2272.0	2168.0	2072.2	1992.4	1929.6	1927.3	2016.5	2226.1	1810.2
30°	2562.3	2557.9	2485.0	2375.0	2248.1	2151.1	2060.5	2049.0	2093.0	2323.5	1841.3
32.5°	2836.8	2803.8	2714.6	2601.6	2455.2	2338.6	2231.5	2204.5	2210.1	2436.9	1889.4
35°	3183.0	3146.9	3021.3	2865.1	2701.4	2563.8	2445.4	2408.6	2394.8	2622.5	1970.4
37.5°	3406.7	3406.1	3327.2	3168.3	2992.6	2840.9	2712.1	2669.1	2641.2	2846.9	2096.0
40°	3412.7	3427.5	3437.8	3436.3	3311.2	3171.5	3057.1	3004.0	2938.9	3146.6	2258.5
42.5°	3229.6	3267.5	3359.0	3514.1	3588.3	3532.7	3436.3	3384.1	3287.4	3467.4	2456.4
45°	2982.0	3008.4	3168.3	3454.2	3738.5	3890.8	3817.3	3724.1	3596.5	3801.9	2633.9
47.5°	2871.1	2875.8	2979.1	3293.0	3749.7	4184.3	4228.9	4077.2	3877.3	4071.4	2772.7
50°	2539.7	2548.2	2690.8	3013.7	3617.2	4322.8	4642.3	4498.4	4183.7	4279.1	2823.3
52.5°	1914.1	1926.1	2107.1	2554.7	3252.8	4263.8	4938.2	4903.3	4519.2	4380.6	2826.1
55°	1129.4	1145.1	1317.9	1719.7	2558.5	3888.0	4960.2	5088.4	4783.9	4440.6	2821.7
57.5°	527.4	538.5	637.4	885.9	1591.2	3072.7	4629.1	4961.5	4930.1	4472.3	2852.9
60°	280.2	283.4	307.3	383.6	719.1	1948.4	3982.9	4480.2	4796.8	4516.3	2890.9
62.5°	214.2	215.2	213.9	223.0	302.2	864.9	3010.5	3683.1	4260.6	4483.3	2848.8
65°	185.7	187.2	178.4	176.3	193.8	308.5	1788.5	2625.4	3348.0	4038.2	2562.0
67.5°	166.5	167.2	156.4	147.3	150.5	166.8	705.6	1437.2	2216.0	2960.0	1857.0
70°	153.3	152.7	141.1	126.6	122.5	114.1	224.3	526.8	1059.1	1501.1	863.6
72.5°	135.7	136.1	130.3	111.5	101.8	79.8	104.0	153.6	316.1	409.1	202.3
75°	120.3	118.8	111.8	99.9	83.9	52.5	51.6	68.4	97.4	96.8	43.7
77.5°	87.1	85.4	87.7	82.0	64.4	34.0	25.8	32.9	39.6	38.4	12.3
80°	63.7	62.8	56.6	68.1	56.9	23.2	16.1	17.6	20.5	17.3	3.8
82.5°	43.7	43.4	39.9	37.7	32.3	14.1	10.0	10.9	13.2	9.7	1.8
85°	7.0	7.9	28.9	22.9	19.1	6.2	7.0	7.6	8.8	5.3	0.6
87.5°	0.0	0.0	13.5	12.0	3.8	2.6	4.1	4.4	4.4	2.9	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°	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5
2.5°	1504.1	1472.7	1414.6	1354.7	1299.0	1232.8	1187.2	1153.0	1113.4	1102.7	1126.0
5°	1514.6	1455.1	1330.1	1194.1	1066.2	924.5	816.2	730.4	652.8	626.5	650.3
7.5°	1530.8	1442.6	1238.7	1014.8	792.3	571.1	419.7	320.1	256.7	237.8	247.9
10°	1547.2	1424.4	1132.8	802.4	498.3	278.0	181.0	144.5	131.0	128.2	129.7
12.5°	1560.7	1399.9	1003.7	570.5	266.4	148.9	118.5	112.4	110.6	110.6	111.2
15°	1568.9	1362.8	850.7	362.8	153.3	112.4	103.3	101.5	101.5	101.8	102.4
17.5°	1568.0	1315.7	683.3	219.6	114.7	99.6	94.2	92.7	92.4	93.0	93.3
20°	1556.3	1254.1	515.3	144.8	99.9	90.8	85.4	82.7	82.3	83.0	83.6
22.5°	1534.3	1178.1	368.5	111.5	90.1	82.3	75.7	73.2	73.2	73.9	74.5
25°	1507.6	1085.1	252.0	94.5	81.3	73.2	66.9	64.8	65.4	66.9	67.2
27.5°	1474.4	980.5	171.2	81.0	70.7	64.1	59.3	57.8	59.3	61.6	62.2
30°	1445.7	871.5	122.2	70.1	60.0	55.3	52.5	52.5	54.6	58.7	59.7
32.5°	1423.7	765.9	94.2	61.9	52.2	48.1	46.5	48.1	51.6	55.6	56.6
35°	1421.0	678.9	79.8	55.3	46.5	42.5	41.7	44.6	48.1	51.2	51.9
37.5°	1442.6	598.4	71.9	49.9	41.4	37.7	37.0	40.5	44.0	47.8	48.7
40°	1483.8	535.3	66.3	44.9	37.3	33.3	32.0	34.6	39.3	44.3	45.5
42.5°	1537.2	483.1	60.0	39.9	33.3	27.6	26.1	28.9	34.0	39.3	40.8
45°	1588.0	438.2	53.1	34.3	27.9	21.4	20.8	24.6	27.0	32.3	33.7
47.5°	1616.1	398.6	47.2	27.9	21.7	17.3	17.3	18.2	20.8	27.0	28.2
50°	1606.6	366.9	40.8	20.8	15.0	13.2	13.2	12.9	16.7	21.7	22.6
52.5°	1587.7	348.7	35.2	16.1	10.3	9.4	8.5	9.4	11.7	13.8	14.1
55°	1585.0	345.6	29.6	12.9	7.3	6.2	4.7	4.7	4.7	4.4	3.8
57.5°	1607.0	350.6	24.9	10.3	5.3	4.1	2.6	0.0	0.0	0.0	0.0
60°	1629.6	356.0	21.4	7.3	3.8	2.1	0.3	0.0	0.0	0.0	0.0
62.5°	1591.8	344.0	17.9	4.4	2.9	0.9	0.0	0.0	0.0	0.0	0.0
65°	1398.3	292.8	14.1	3.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	994.6	196.0	9.4	1.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	454.0	82.0	5.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	97.1	25.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	19.7	18.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.2	29.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.8	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.6	3.2	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)