

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: P200286

Luminaire Tested: **GPC-AF-02-LED-E1-SL3-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7050-800-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8575 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

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

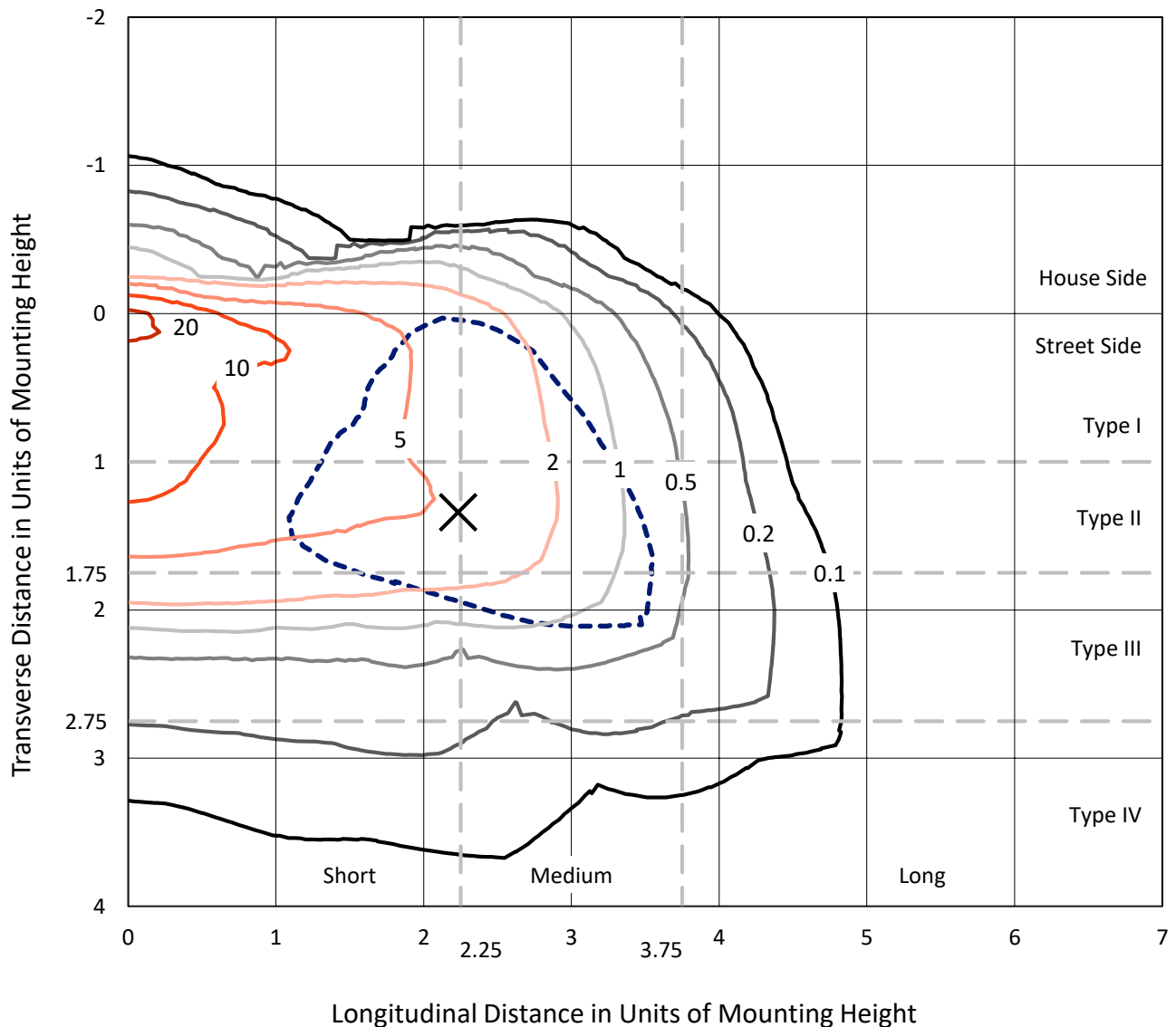


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Iso-Footcandle Lines of Horizontal Illumination

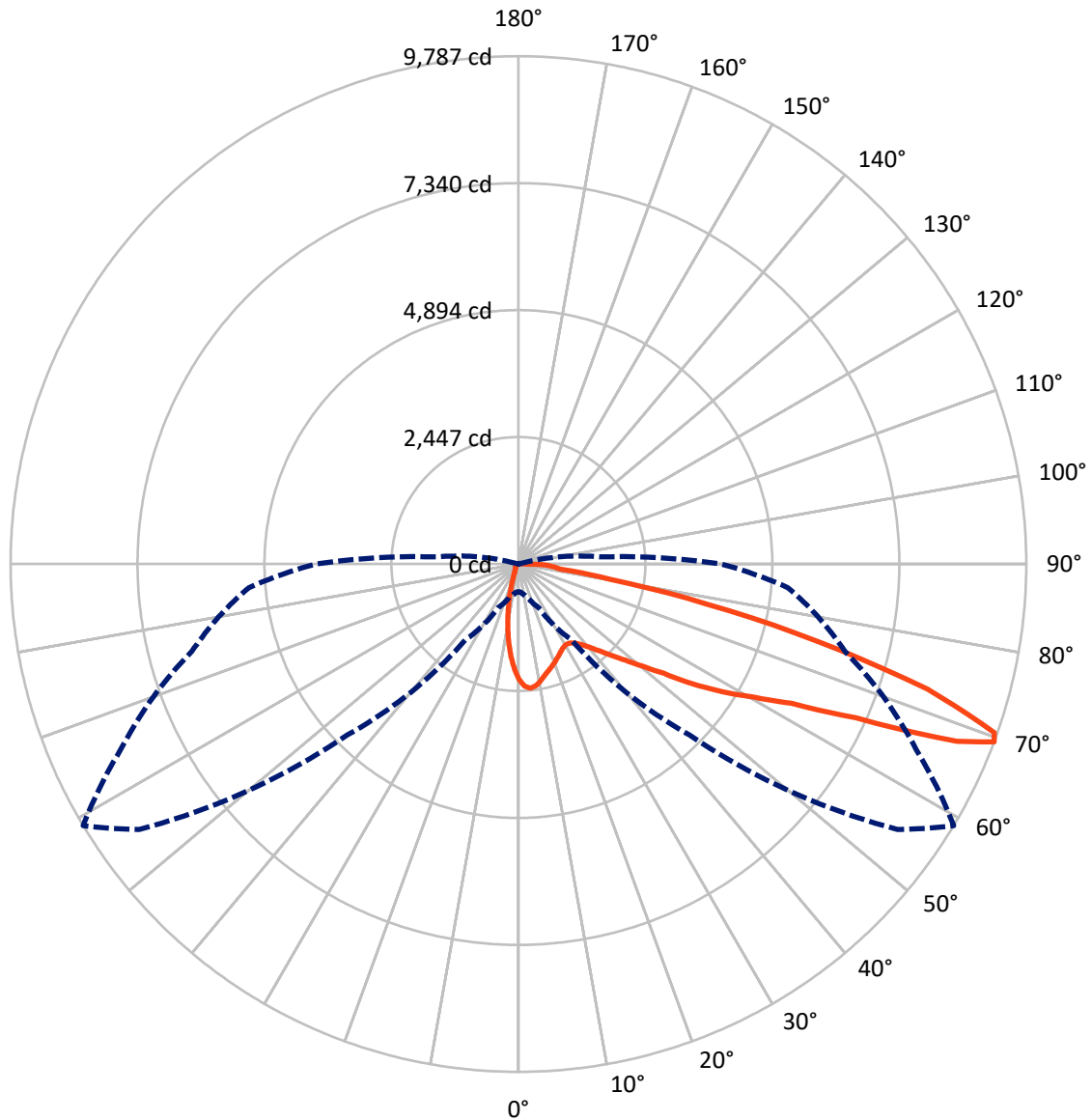
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.4 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	698.3	0.0	698.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	7876.7	0.0	7876.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	8575.0	0.0	8575.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.2	2.1
10°-20°	374.3	4.4
20°-30°	503.7	5.9
30°-40°	731.4	8.5
40°-50°	1217.8	14.2
50°-60°	1899.8	22.2
60°-70°	2350.8	27.4
70°-80°	1191.4	13.9
80°-90°	124.7	1.5
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°	8575.0	100.0
0°-180°	8575.0	100.0



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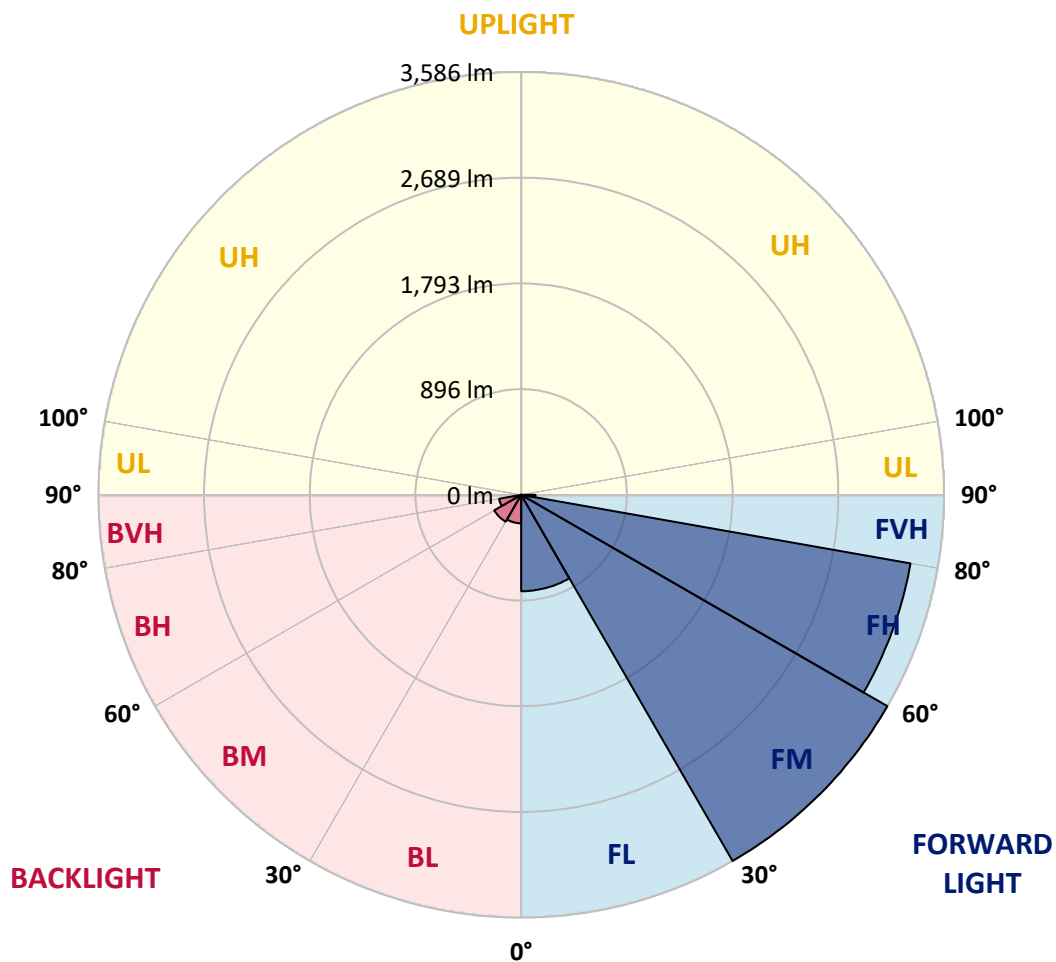
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	817.5	9.5			
FM (30°-60°)	3585.8	41.8			
FH (60°-80°)	3352.5	39.1			G2/5000
FVH (80°-90°)	120.8	1.4			G2/225
BL (0°-30°)	241.7	2.8	B1/500		
BM (30°-60°)	263.1	3.1	B1/1000		
BH (60°-80°)	189.6	2.2	B1/500		G1/500
BVH (80°-90°)	3.8	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2232.0	2232.0	2232.0	2232.0	2232.0	2232.0	2232.0	2232.0	2232.0	2232.0	2232.0
2.5°	2446.3	2445.3	2434.6	2429.8	2421.1	2402.6	2374.0	2359.0	2334.8	2292.6	2235.8
5°	2424.0	2435.6	2441.9	2442.4	2448.7	2441.9	2416.2	2403.6	2370.1	2302.3	2200.4
7.5°	2272.7	2277.0	2295.0	2310.5	2340.6	2369.2	2378.4	2373.1	2353.2	2280.4	2145.2
10°	2110.7	2115.1	2136.4	2156.8	2197.5	2241.7	2288.2	2297.9	2306.1	2249.4	2091.8
12.5°	1971.1	1975.4	1997.3	2023.9	2071.5	2125.8	2198.0	2214.0	2250.4	2219.8	2049.1
15°	1850.8	1852.8	1874.1	1907.1	1963.8	2033.6	2115.6	2141.3	2197.0	2199.0	2011.8
17.5°	1748.5	1753.4	1766.5	1798.0	1860.0	1946.4	2041.9	2078.7	2144.2	2181.5	1975.4
20°	1686.0	1690.8	1690.3	1707.8	1763.5	1855.7	1968.2	2012.3	2091.8	2163.6	1943.0
22.5°	1673.8	1673.8	1661.2	1658.8	1691.8	1768.9	1891.6	1945.4	2044.8	2155.8	1920.2
25°	1717.0	1715.1	1683.5	1657.8	1659.3	1705.4	1817.4	1881.4	2005.0	2161.2	1908.0
27.5°	1808.2	1805.7	1766.0	1717.0	1677.7	1677.2	1761.1	1830.0	1973.5	2186.4	1912.9
30°	1934.2	1933.3	1890.1	1828.5	1757.2	1691.8	1741.7	1804.3	1953.1	2232.0	1924.0
32.5°	2071.9	2070.5	2038.0	1973.0	1882.8	1757.2	1762.1	1814.5	1959.0	2292.6	1951.2
35°	2217.9	2215.5	2201.4	2144.7	2045.3	1878.0	1829.0	1869.7	1995.8	2383.2	2004.5
37.5°	2376.0	2378.4	2388.6	2334.3	2230.0	2047.2	1941.0	1968.7	2070.0	2506.4	2091.3
40°	2609.2	2608.7	2612.1	2540.8	2440.5	2254.3	2097.6	2106.4	2194.1	2669.8	2223.2
42.5°	3032.5	3002.9	2913.2	2767.8	2666.9	2490.9	2295.0	2285.8	2345.9	2872.0	2408.0
45°	3601.3	3538.3	3305.5	3026.7	2897.7	2757.6	2537.9	2508.3	2546.6	3114.9	2635.9
47.5°	4090.5	4025.1	3695.8	3296.3	3142.6	3010.7	2822.6	2769.2	2781.8	3387.0	2924.9
50°	4256.9	4224.9	3937.3	3531.0	3379.7	3329.3	3152.8	3087.8	3069.8	3701.7	3259.9
52.5°	4199.2	4196.7	4005.2	3683.2	3596.9	3659.0	3568.3	3493.2	3427.2	4033.3	3600.8
55°	4106.5	4118.7	4032.8	3816.6	3813.7	3960.1	4136.6	4074.1	3883.0	4393.6	3894.6
57.5°	3851.0	3902.9	4017.3	4068.7	4188.0	4337.8	4609.9	4646.7	4420.8	4669.5	4138.5
60°	3124.6	3238.6	3612.9	4105.1	4670.5	5043.8	5181.1	5212.6	4862.0	4898.9	4467.8
62.5°	2217.9	2334.3	2809.0	3641.5	4677.7	5971.4	6032.0	5908.4	5347.9	5238.8	5035.6
65°	1177.3	1267.0	1654.9	2628.6	4055.6	6186.7	7520.2	7151.7	6205.2	5907.4	5769.2
67.5°	602.2	629.4	783.6	1286.4	2788.1	5495.3	8854.1	9113.5	7682.6	6570.8	5733.8
69°	532.9	548.9	651.2	930.0	1785.4	4654.5	8919.1	9787.0	8456.0	6515.5	5210.6
70°	515.9	530.0	623.1	841.8	1395.5	3903.4	8670.3	9727.9	8653.9	6305.0	4819.8
72.5°	437.9	450.0	554.7	743.8	1134.2	1937.6	7043.0	8243.1	7765.5	5252.3	3488.8
75°	292.9	332.6	532.4	697.3	1055.1	1100.7	4643.3	5956.9	5533.6	3542.6	1817.4
77.5°	70.3	75.6	150.3	554.7	964.9	968.8	2388.1	3703.1	3020.4	1262.7	429.6
80°	37.8	36.4	42.2	110.1	898.5	909.2	1075.0	1797.5	1078.4	209.5	141.6
82.5°	26.7	25.2	27.2	46.1	282.7	828.2	777.8	813.6	447.1	80.5	63.5
85°	9.7	9.2	15.0	41.7	88.7	476.2	799.1	671.1	362.2	36.9	46.5
87.5°	3.4	2.9	5.8	22.8	27.2	202.7	493.1	507.2	142.6	22.3	21.8
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°	2232.0	2232.0	2232.0	2232.0	2232.0	2232.0	2232.0	2232.0	2232.0	2232.0	2232.0
2.5°	2212.1	2182.0	2126.7	2070.0	2017.6	1954.6	1923.1	1892.0	1879.0	1874.1	1851.3
5°	2148.1	2097.2	1979.8	1862.0	1753.4	1638.0	1561.8	1500.7	1464.9	1447.4	1419.8
7.5°	2066.1	1982.7	1804.8	1622.9	1453.7	1286.9	1163.3	1068.2	1002.8	971.2	942.6
10°	1986.6	1875.6	1622.4	1374.7	1144.8	923.7	753.0	629.4	550.4	514.0	490.7
12.5°	1915.3	1771.3	1446.4	1132.7	844.2	585.3	411.7	313.2	264.3	247.3	239.1
15°	1851.8	1675.3	1280.1	902.9	571.7	334.6	225.0	191.5	183.8	183.8	182.8
17.5°	1791.7	1581.2	1119.6	687.1	358.8	204.6	171.2	166.8	166.8	168.7	168.7
20°	1734.0	1491.5	964.4	493.1	226.0	162.4	154.7	153.7	154.7	157.1	157.1
22.5°	1684.5	1410.1	819.5	338.5	167.8	146.4	142.6	141.1	141.6	143.0	144.0
25°	1647.7	1341.2	682.7	229.4	144.5	133.3	129.0	126.6	124.6	124.6	125.6
27.5°	1624.4	1283.0	550.4	166.8	130.0	121.2	114.4	110.6	106.2	103.8	104.7
30°	1607.4	1227.7	426.2	136.3	116.4	107.6	98.9	92.6	86.3	83.4	84.4
32.5°	1601.1	1183.1	318.6	120.3	104.3	94.6	83.9	75.6	68.9	66.4	66.9
35°	1618.1	1147.7	233.2	108.6	94.6	82.4	70.3	61.1	55.8	54.3	54.8
37.5°	1662.7	1128.8	174.6	98.9	85.8	72.2	58.7	49.9	46.5	46.5	47.0
40°	1747.1	1128.3	140.1	92.1	78.1	62.6	48.5	42.2	40.2	41.2	41.7
42.5°	1870.2	1154.0	122.2	85.8	71.3	53.3	40.2	35.9	35.4	36.4	36.9
45°	2038.5	1201.1	112.5	80.5	64.0	44.6	33.9	31.0	31.0	32.5	33.0
47.5°	2244.6	1269.9	104.3	75.2	56.7	37.3	29.1	27.2	27.6	29.1	29.6
50°	2492.8	1356.7	96.0	69.3	51.4	31.0	25.2	23.8	24.2	26.2	26.7
52.5°	2775.5	1473.6	89.2	64.0	44.6	25.7	21.3	20.4	21.3	23.3	23.8
55°	3018.0	1578.3	81.0	59.6	35.9	21.3	17.5	17.5	18.4	20.9	21.3
57.5°	3251.2	1687.9	73.7	51.4	28.1	17.0	14.5	15.0	16.5	18.9	19.4
60°	3593.5	1873.6	65.0	43.2	21.3	13.6	12.1	12.6	14.5	17.0	17.5
62.5°	4174.9	2156.3	56.2	35.9	16.5	10.7	9.7	10.7	13.1	16.0	16.5
65°	4699.6	2271.2	46.1	30.1	12.6	8.2	8.2	9.7	12.6	15.5	16.0
67.5°	4407.2	1911.9	35.9	23.8	9.7	6.3	6.8	9.2	12.1	15.5	16.0
69°	3897.6	1563.3	30.5	18.9	8.2	5.8	6.3	9.2	12.1	15.0	15.5
70°	3500.4	1319.9	27.2	16.0	7.3	5.8	6.3	8.7	12.1	15.0	15.5
72.5°	2344.4	712.8	21.8	11.6	6.8	5.3	5.3	8.7	11.6	14.5	15.0
75°	1007.6	196.9	17.5	8.2	5.8	4.8	4.8	8.2	11.2	14.1	15.0
77.5°	184.3	49.9	14.1	7.3	5.8	4.8	4.4	7.8	10.7	13.6	14.1
80°	73.2	24.7	11.2	6.3	5.3	4.4	3.9	7.3	10.2	13.1	13.6
82.5°	44.1	14.1	9.2	5.8	5.3	3.9	3.4	6.3	9.7	12.6	13.1
85°	35.9	9.7	7.3	5.8	4.8	3.9	2.9	5.8	8.7	12.1	12.6
87.5°	17.5	6.8	6.8	5.3	4.8	3.9	2.9	5.3	8.2	11.6	12.1
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)