

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: P270032

Luminaire Tested: **GPC-AF-02-LED-E1-SL2-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7027-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8939.3 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

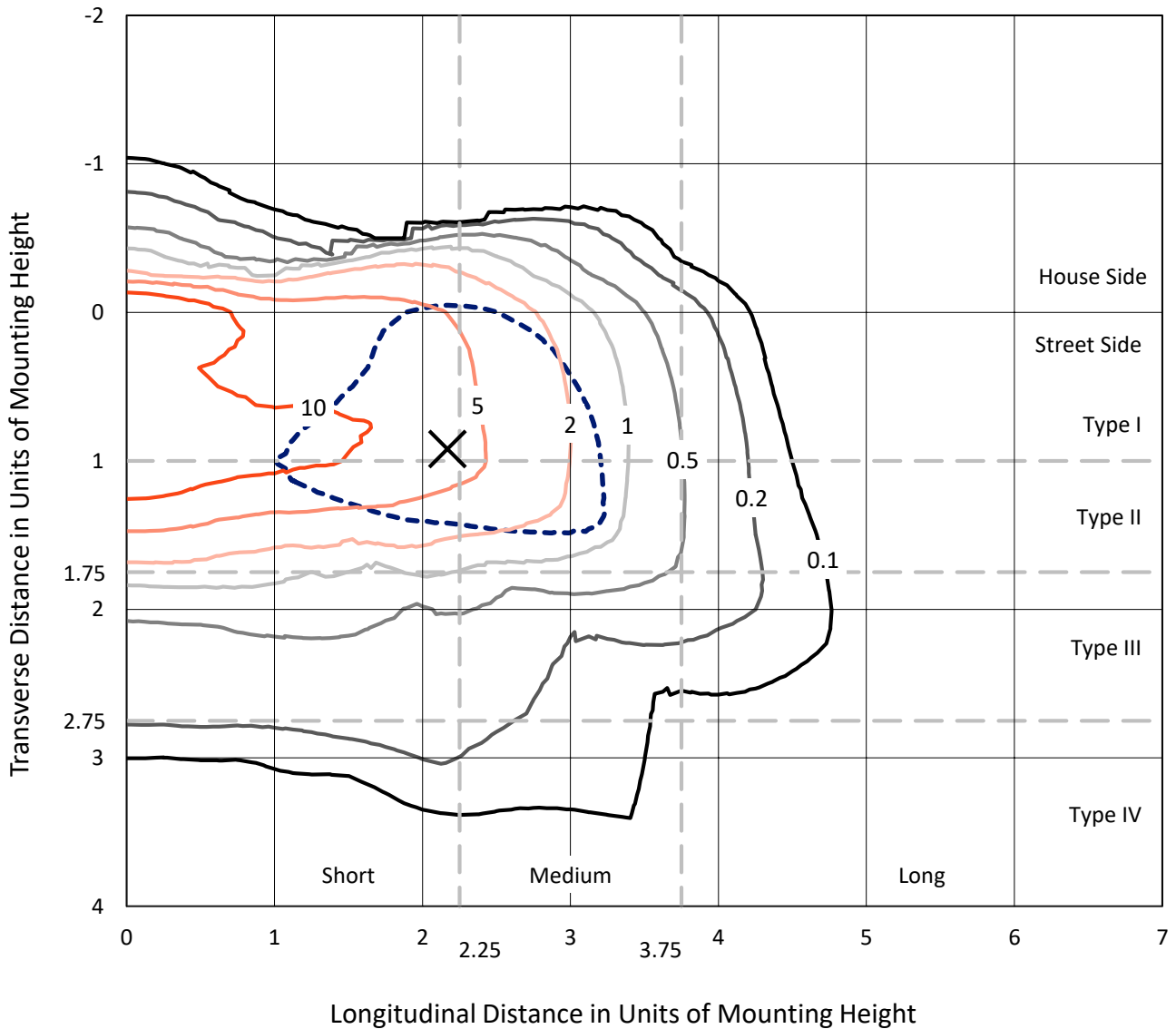
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

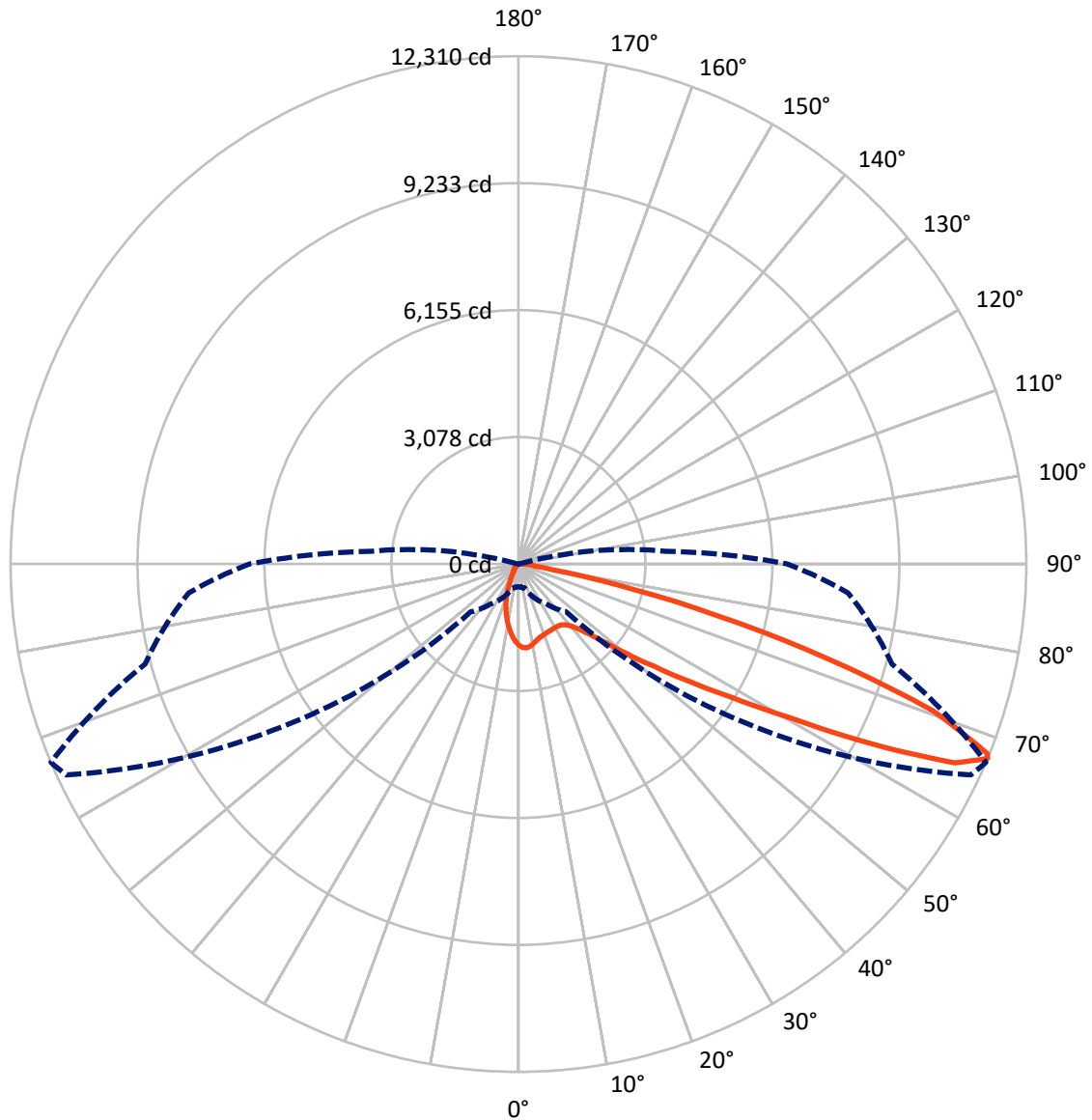


Based on 10 foot mounting height. Maximum calculated value = 19.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	928.2	0.0	928.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	8011.2	0.0	8011.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	8939.3	0.0	8939.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	1.8
10°-20°	341.4	3.8
20°-30°	496.4	5.6
30°-40°	774.4	8.7
40°-50°	1371.8	15.3
50°-60°	2170.8	24.3
60°-70°	2486.3	27.8
70°-80°	1031.3	11.5
80°-90°	106.5	1.2
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°	8939.3	100.0
0°-180°	8939.3	100.0



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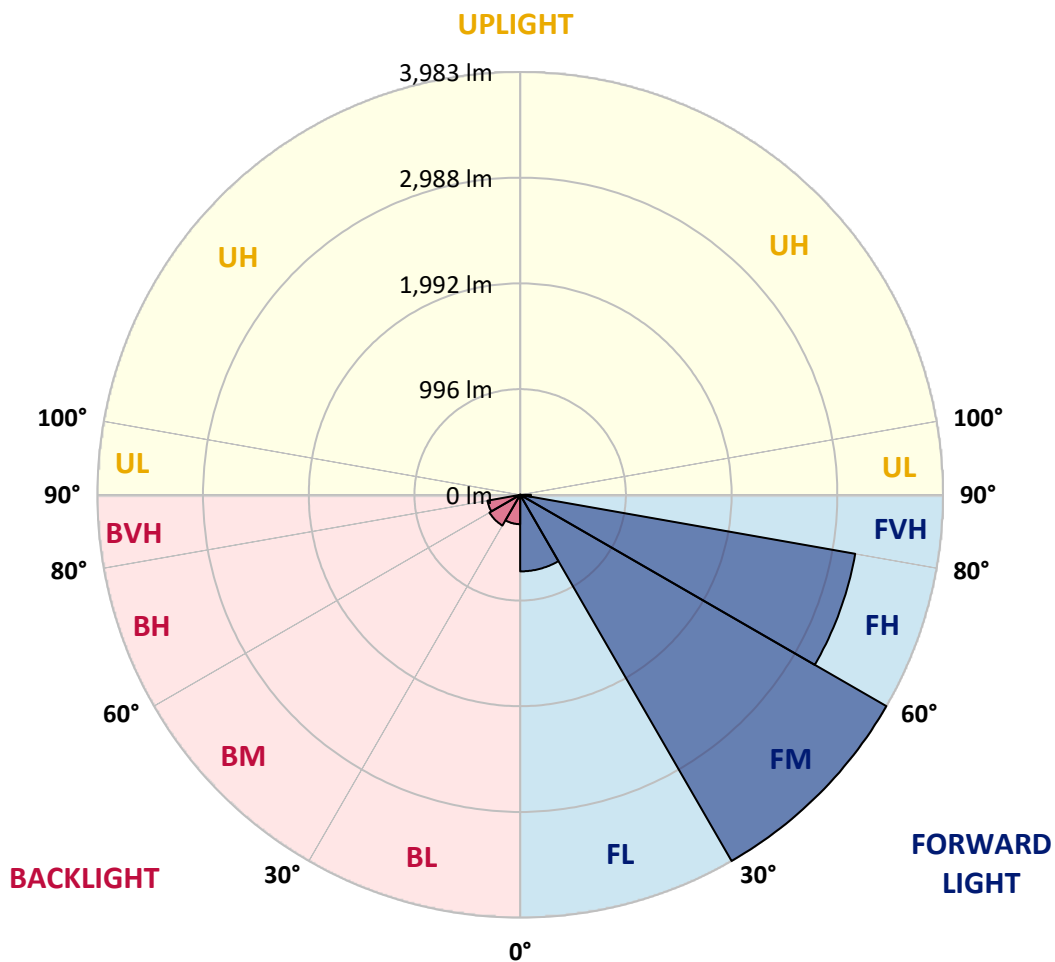
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	721.3	8.1			
FM (30°-60°)	3983.4	44.6			
FH (60°-80°)	3204.8	35.9			G2/5000
FVH (80°-90°)	101.7	1.1			G2/225
BL (0°-30°)	277.0	3.1	B1/500		
BM (30°-60°)	333.6	3.7	B1/1000		
BH (60°-80°)	312.8	3.5	B1/500		G1/500
BVH (80°-90°)	4.8	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5
2.5°	2038.3	2042.3	2041.8	2045.0	2052.3	2052.7	2045.5	2031.3	2028.4	2010.0	1978.2
5°	1879.8	1891.7	1898.9	1928.8	1962.1	2002.2	2032.4	2043.5	2041.8	2028.8	1980.9
7.5°	1698.8	1710.7	1719.0	1754.0	1798.3	1867.1	1945.9	2010.5	2016.2	2030.3	1978.7
10°	1578.3	1580.4	1591.8	1625.3	1671.7	1742.1	1835.9	1949.1	1966.2	2017.9	1973.5
12.5°	1479.2	1480.8	1495.9	1531.9	1581.5	1652.3	1750.8	1881.8	1908.4	2002.2	1972.5
15°	1408.8	1414.7	1428.1	1465.7	1518.3	1588.7	1689.9	1832.3	1864.1	1996.6	1981.9
17.5°	1385.4	1391.7	1395.8	1422.9	1471.0	1539.8	1643.4	1799.9	1835.9	1999.5	2000.2
20°	1409.9	1414.7	1405.2	1412.0	1441.7	1503.3	1604.5	1772.3	1815.0	2003.3	2023.6
22.5°	1501.2	1503.3	1477.7	1448.0	1442.8	1476.6	1573.7	1750.3	1796.3	2013.2	2051.2
25°	1657.6	1653.9	1612.2	1548.0	1487.7	1472.0	1555.3	1736.9	1786.9	2023.6	2079.9
27.5°	1846.3	1851.5	1794.2	1700.9	1585.6	1503.3	1552.8	1731.0	1782.6	2030.9	2104.9
30°	2075.8	2083.0	2017.4	1900.1	1734.7	1580.4	1576.7	1730.0	1780.1	2026.1	2107.1
32.5°	2309.8	2318.7	2267.1	2146.1	1934.0	1709.7	1631.0	1741.5	1785.3	2010.0	2095.0
35°	2554.9	2567.4	2533.0	2429.2	2204.0	1896.4	1726.5	1776.5	1809.8	2008.5	2083.0
37.5°	2893.4	2904.8	2840.1	2730.0	2531.0	2146.6	1879.8	1842.2	1867.7	2033.6	2086.1
40°	3398.6	3397.0	3230.1	3061.8	2890.1	2464.7	2095.0	1961.0	1974.0	2109.1	2124.8
42.5°	3949.2	3946.6	3699.8	3443.9	3289.1	2856.3	2378.2	2166.4	2157.5	2248.3	2224.8
45°	4373.6	4373.0	4171.8	3883.5	3769.3	3305.8	2744.2	2452.3	2438.5	2474.7	2409.4
47.5°	4554.5	4557.6	4456.5	4253.7	4301.7	3913.7	3205.6	2866.2	2845.9	2831.3	2732.1
50°	4413.7	4420.0	4428.4	4388.7	4692.1	4730.7	3824.5	3449.6	3439.7	3374.6	3219.7
52.5°	3953.9	3985.7	4083.6	4209.4	4827.8	5515.0	4795.0	4174.5	4121.2	4051.9	3881.3
55°	3179.0	3214.0	3400.2	3705.1	4625.9	6030.1	6154.7	5108.8	5020.2	4813.2	4567.1
57.5°	2103.9	2158.1	2428.2	2816.1	4039.9	6113.1	7511.4	6405.5	6096.8	5530.1	5252.7
60°	1159.2	1211.3	1504.3	1855.7	2917.9	5703.2	8423.9	8093.9	7548.5	6331.4	6085.4
62.5°	713.9	742.0	958.3	1285.3	1749.9	4501.3	8612.7	10215.4	9584.0	7363.3	7091.2
65°	568.4	580.3	686.1	1050.7	1254.6	2677.5	8003.1	11833.0	11622.2	8612.7	7991.6
67°	551.6	556.3	606.4	902.1	1182.6	1641.5	6704.8	12096.1	12310.0	9368.8	8019.8
67.5°	555.3	560.5	608.0	860.8	1180.5	1508.4	6257.5	11992.5	12262.6	9428.7	7895.3
70°	535.5	551.6	696.0	860.3	1122.6	1253.5	3747.4	10390.6	10671.8	8760.7	6699.1
72.5°	189.8	190.8	300.8	696.0	1220.6	1267.0	1881.8	7617.3	7825.3	6701.6	4829.8
75°	112.6	95.8	100.2	198.2	1166.4	1230.5	1085.6	4867.3	4945.1	3840.2	2445.9
77.5°	77.8	67.8	69.9	87.6	444.2	1213.3	862.5	2538.3	2455.2	1346.7	520.8
80°	44.3	39.0	41.7	76.6	161.7	1132.0	813.3	1029.3	877.6	228.3	143.9
82.5°	23.4	19.9	24.0	63.2	112.6	705.4	814.9	497.4	394.1	77.2	98.1
85°	8.4	6.7	11.5	43.3	75.1	216.4	755.6	418.3	328.5	37.5	74.6
87.5°	1.5	1.5	4.8	17.7	30.3	66.3	446.8	248.2	166.4	22.4	51.2
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°	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5	1971.5
2.5°	1965.2	1942.8	1912.5	1875.5	1831.7	1793.1	1764.5	1734.7	1728.5	1718.1	1716.5
5°	1952.1	1913.6	1838.6	1752.5	1660.6	1577.9	1510.5	1450.6	1424.0	1401.0	1398.4
7.5°	1932.9	1875.0	1747.3	1608.5	1465.1	1334.8	1224.3	1146.1	1074.2	1039.7	1034.5
10°	1910.4	1827.5	1644.5	1452.1	1254.0	1069.9	905.8	768.1	684.6	635.1	628.9
12.5°	1889.6	1781.1	1539.8	1290.0	1026.7	780.5	569.3	438.0	350.3	314.9	310.8
15°	1879.8	1743.6	1441.7	1124.1	788.9	496.9	311.4	240.8	212.2	203.8	203.3
17.5°	1878.6	1711.8	1345.8	952.7	552.6	288.9	202.8	185.1	179.3	177.2	177.2
20°	1878.1	1681.5	1249.8	774.8	350.9	192.3	168.9	164.7	160.5	158.0	158.0
22.5°	1883.8	1654.5	1149.7	593.4	221.1	155.9	148.6	144.4	139.1	135.6	135.0
25°	1889.6	1633.6	1047.6	422.4	160.1	135.6	128.3	122.4	115.3	110.5	110.0
27.5°	1890.7	1607.4	938.0	282.5	133.9	118.3	109.0	100.2	91.7	87.0	86.5
30°	1875.0	1563.7	816.5	190.8	118.3	102.8	90.2	80.8	73.0	69.3	69.3
32.5°	1844.2	1509.5	683.0	143.9	105.3	88.2	74.6	65.7	60.5	58.8	58.4
35°	1816.6	1451.1	545.9	122.0	94.4	74.6	61.1	55.2	52.1	51.7	51.2
37.5°	1800.5	1404.2	417.2	110.5	83.9	62.5	51.7	47.4	45.9	44.8	45.4
40°	1813.0	1365.1	308.2	101.1	73.5	52.1	43.7	41.7	40.2	39.6	39.6
42.5°	1867.7	1358.2	228.9	92.9	63.6	43.3	38.1	36.6	35.5	34.9	35.5
45°	2011.7	1400.0	177.9	85.0	53.7	36.6	32.2	31.8	31.4	31.4	31.4
47.5°	2227.9	1486.1	148.1	76.1	44.8	31.4	28.1	27.7	27.0	27.7	27.7
50°	2594.6	1643.4	132.4	67.3	37.0	26.6	24.0	24.0	24.0	24.0	24.6
52.5°	3152.0	1953.3	122.0	58.4	30.3	22.4	20.3	20.3	20.8	20.8	21.4
55°	3772.9	2364.1	112.6	49.5	25.5	18.8	16.7	17.2	17.7	18.2	18.2
57.5°	4446.6	2819.3	104.8	40.7	21.9	15.1	14.1	14.6	15.1	16.2	16.2
60°	5259.4	3312.1	93.3	31.8	18.2	11.9	11.0	11.9	13.6	14.6	15.1
62.5°	6152.1	3788.6	78.7	25.1	15.1	9.4	8.9	11.0	13.0	14.1	14.6
65°	6762.3	3938.2	60.5	20.3	11.5	6.7	7.2	9.9	12.4	14.1	14.1
67°	6515.0	3570.7	49.5	17.2	9.4	5.2	6.7	9.9	12.4	13.6	14.1
67.5°	6343.6	3426.8	47.4	16.7	8.9	5.2	6.7	9.9	12.4	14.1	14.1
70°	5161.4	2574.3	39.6	12.4	7.2	4.8	5.7	9.4	11.9	13.6	13.6
72.5°	3586.3	1587.1	35.5	8.9	6.3	4.1	5.2	8.9	11.5	13.0	13.6
75°	1705.1	574.6	30.3	6.7	5.7	3.7	4.8	8.9	11.5	13.0	13.0
77.5°	347.7	133.5	24.6	5.7	4.8	3.7	4.1	8.4	11.0	12.4	12.4
80°	114.2	51.7	18.2	5.2	4.8	3.7	4.1	7.8	11.0	11.9	12.4
82.5°	82.4	26.1	11.9	5.2	4.8	3.7	3.7	7.8	10.4	11.9	11.9
85°	63.2	18.2	7.8	5.2	4.8	3.7	3.7	7.2	9.9	11.5	11.5
87.5°	41.7	7.2	6.3	5.2	4.8	3.7	3.7	7.2	9.4	11.0	11.5
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)