

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: P270036

Luminaire Tested: **GPC-AF-02-LED-E1-SL3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7027-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8721.5 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

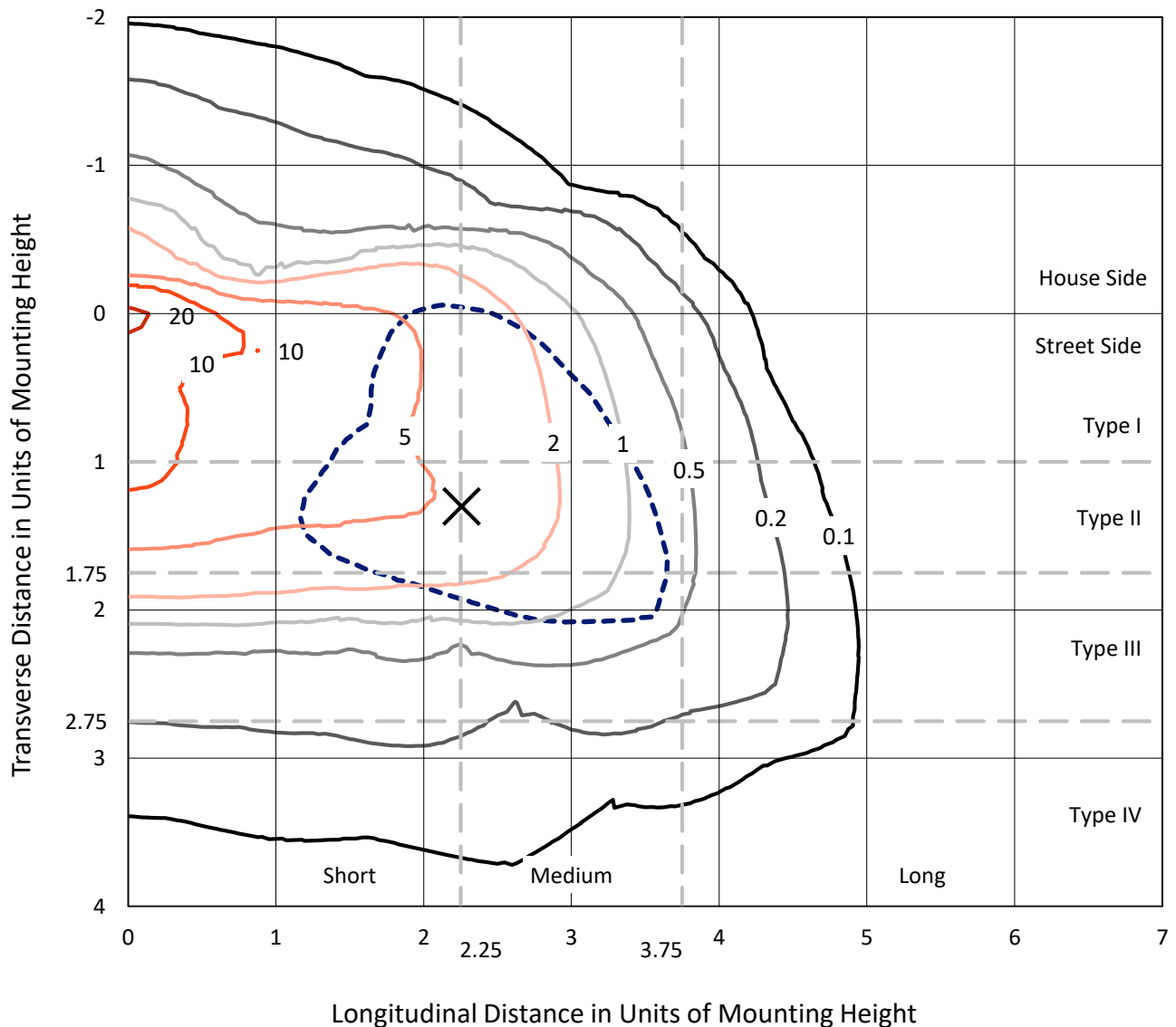
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

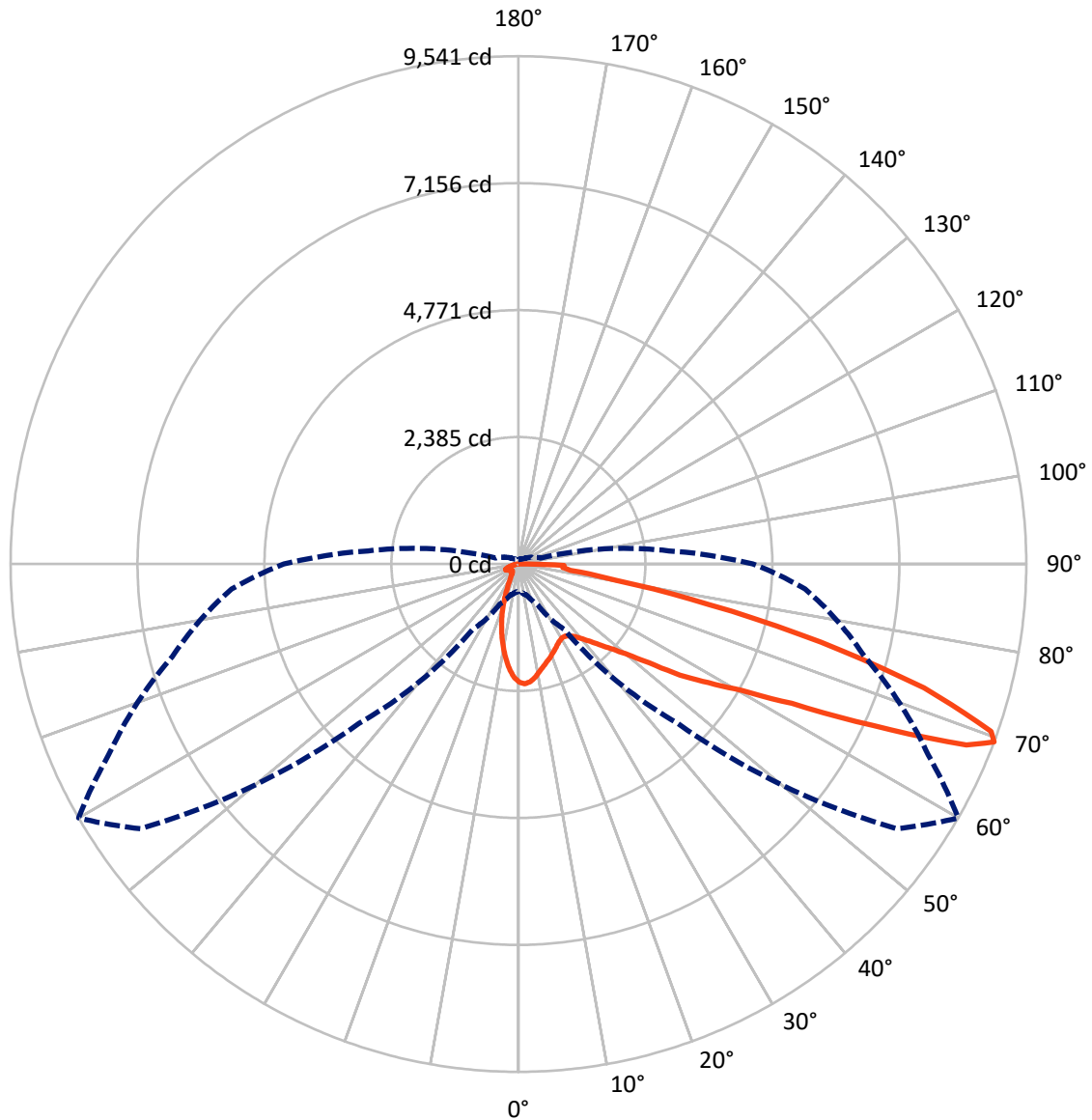
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1240.8	0.0	1240.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	7480.7	0.0	7480.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	8721.5	0.0	8721.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	2.2
10°-20°	400.4	4.6
20°-30°	510.1	5.8
30°-40°	701.3	8.0
40°-50°	1137.9	13.0
50°-60°	1824.9	20.9
60°-70°	2428.8	27.8
70°-80°	1311.4	15.0
80°-90°	218.8	2.5
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°	8721.5	100.0
0°-180°	8721.5	100.0



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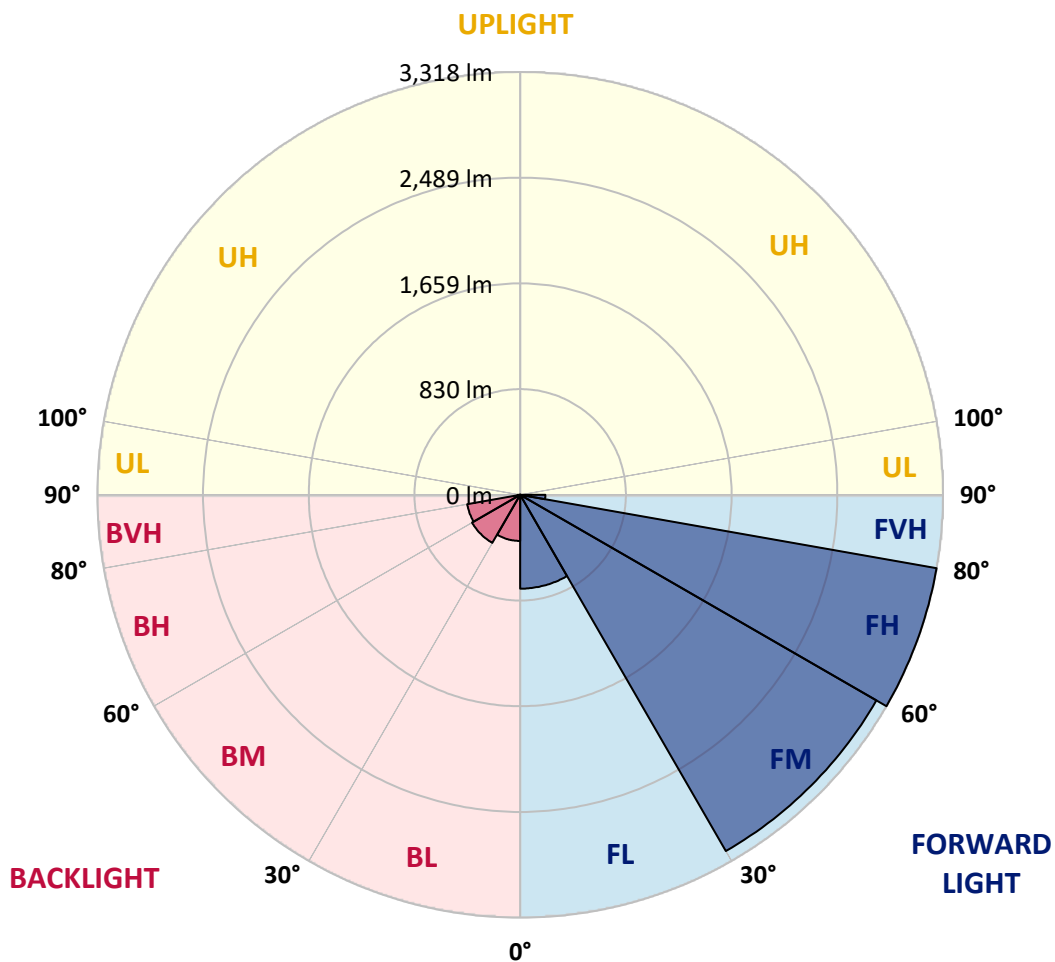
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	736.4	8.4			
FM (30°-60°)	3228.2	37.0			
FH (60°-80°)	3318.3	38.0			G2/5000
FVH (80°-90°)	197.7	2.3			G2/225
BL (0°-30°)	362.0	4.2	B1/500		
BM (30°-60°)	435.9	5.0	B1/1000		
BH (60°-80°)	421.8	4.8	B1/500		G1/500
BVH (80°-90°)	21.1	0.2			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3
2.5°	2267.9	2272.9	2270.8	2269.6	2273.3	2267.4	2255.3	2251.4	2245.6	2231.6	2208.0
5°	2182.7	2198.0	2197.1	2208.5	2227.3	2232.5	2227.0	2227.8	2216.8	2199.6	2160.5
7.5°	2035.6	2042.0	2045.4	2070.2	2104.8	2132.7	2156.2	2163.7	2158.7	2144.0	2093.4
10°	1884.0	1889.1	1897.1	1926.1	1970.1	2008.3	2052.9	2078.7	2089.6	2087.1	2030.7
12.5°	1753.9	1758.9	1769.4	1802.3	1854.6	1901.7	1966.6	1998.6	2024.8	2040.4	1979.7
15°	1637.3	1648.1	1658.2	1696.2	1754.7	1816.6	1889.9	1930.4	1970.8	2005.8	1934.6
17.5°	1546.2	1557.1	1563.1	1597.5	1659.9	1735.7	1821.8	1869.4	1919.9	1977.2	1889.9
20°	1493.5	1498.6	1496.0	1515.4	1571.5	1652.0	1753.9	1809.0	1870.1	1950.2	1845.3
22.5°	1478.8	1479.1	1469.8	1467.8	1504.0	1571.9	1681.4	1748.5	1823.4	1932.6	1806.9
25°	1514.5	1513.4	1488.0	1467.4	1471.2	1510.8	1611.5	1689.4	1784.3	1928.8	1777.4
27.5°	1594.2	1597.9	1560.4	1521.6	1483.5	1482.2	1558.4	1640.6	1752.1	1946.0	1764.8
30°	1705.8	1712.2	1672.1	1622.9	1550.8	1491.4	1537.8	1611.5	1732.4	1981.8	1762.7
32.5°	1828.1	1834.8	1804.4	1752.7	1658.2	1548.7	1552.1	1614.1	1731.6	2032.0	1777.0
35°	1958.1	1965.9	1950.2	1906.5	1801.6	1654.5	1606.9	1654.9	1758.9	2108.6	1815.4
37.5°	2103.6	2115.4	2119.6	2077.9	1965.9	1793.8	1696.5	1732.4	1820.9	2215.2	1885.7
40°	2313.0	2329.3	2328.0	2268.3	2154.0	1982.2	1835.1	1844.5	1917.3	2357.6	1998.2
42.5°	2714.0	2717.5	2612.5	2482.2	2361.4	2180.2	1998.6	1991.1	2050.6	2537.9	2163.7
45°	3224.1	3210.4	2977.0	2725.4	2578.0	2407.7	2211.4	2174.3	2219.4	2757.8	2371.0
47.5°	3647.6	3615.6	3320.7	2973.5	2807.2	2655.0	2461.3	2396.4	2421.2	3007.3	2639.0
50°	3794.6	3770.6	3526.2	3180.0	3024.1	2956.7	2768.8	2676.9	2683.6	3304.7	2952.9
52.5°	3763.1	3759.6	3596.6	3316.1	3227.2	3273.6	3204.4	3080.1	3014.4	3635.0	3291.6
55°	3688.5	3695.6	3636.7	3474.5	3459.4	3579.3	3773.6	3681.8	3477.3	3968.3	3641.6
57.5°	3429.4	3448.0	3577.7	3673.8	3833.0	4011.7	4231.9	4205.9	3975.8	4328.5	4058.0
60°	2762.8	2805.9	3153.9	3635.0	4217.6	4776.3	4874.8	4814.1	4489.8	4775.4	4607.8
62.5°	1935.8	1980.6	2394.3	3147.1	4154.4	5640.0	6024.2	5762.5	5227.9	5433.9	5319.4
65°	1036.5	1057.8	1373.9	2183.6	3507.3	5818.1	7703.9	7305.7	6396.7	6245.7	5928.2
67.5°	571.7	583.4	704.5	1102.5	2246.4	5123.5	8773.9	9074.8	7857.3	6786.2	5817.3
69°	517.0	527.8	607.1	835.1	1503.3	4236.1	8669.5	9541.2	8497.5	6732.7	5407.7
70°	505.6	515.6	586.9	769.7	1216.8	3491.7	8319.5	9422.0	8650.0	6541.1	5050.5
72.5°	455.0	466.0	535.0	691.3	1039.8	1740.8	6590.0	7966.3	7853.4	5671.4	3830.9
75°	424.3	434.4	551.5	677.1	995.5	1101.7	4344.5	5871.2	5773.0	3967.4	2065.7
77.5°	181.5	180.6	255.7	572.9	1010.2	1066.7	2334.4	3667.8	3346.4	1695.7	593.2
80°	121.4	119.3	121.4	168.5	926.4	1072.7	1223.0	1861.7	1406.2	432.3	292.4
82.5°	104.6	102.8	106.5	102.8	325.6	1224.3	1039.8	990.0	668.6	245.6	144.9
85°	70.3	67.5	91.8	92.3	153.8	1087.8	1171.2	836.3	541.0	145.7	71.7
87.5°	33.6	32.9	53.4	65.2	90.2	442.0	1314.0	857.0	545.6	74.6	34.1
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°	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3
2.5°	2200.8	2183.6	2166.7	2146.5	2125.5	2101.9	2090.0	2078.3	2075.4	2071.9	2060.2
5°	2140.2	2115.8	2073.6	2027.3	1978.4	1930.7	1894.5	1871.9	1854.6	1845.7	1830.1
7.5°	2061.8	2026.0	1952.2	1872.2	1790.1	1715.1	1650.2	1609.4	1570.5	1552.5	1531.8
10°	1987.3	1933.8	1819.2	1701.2	1583.3	1469.8	1363.3	1287.9	1220.9	1183.4	1156.8
12.5°	1923.2	1849.9	1691.1	1531.4	1369.6	1208.3	1048.6	923.1	818.1	763.0	734.8
15°	1860.8	1772.4	1569.3	1366.7	1159.1	939.4	729.8	587.3	500.4	466.0	454.2
17.5°	1804.4	1691.1	1447.2	1200.8	941.7	676.2	490.4	412.1	378.7	367.3	363.5
20°	1743.3	1609.0	1320.4	1027.1	715.0	472.7	382.9	348.5	335.0	331.6	329.9
22.5°	1684.3	1528.0	1199.0	841.4	513.7	364.8	329.0	314.6	312.6	315.6	315.6
25°	1634.2	1455.7	1067.9	647.0	377.1	307.1	294.5	291.1	299.1	310.1	312.3
27.5°	1596.7	1396.1	928.6	477.8	300.5	267.1	266.6	272.1	291.9	313.0	317.2
30°	1571.0	1339.7	779.4	344.6	252.0	235.0	241.9	253.6	282.6	312.6	320.6
32.5°	1558.0	1298.1	624.0	266.6	215.8	206.4	217.7	232.1	260.8	288.5	299.1
35°	1568.1	1267.2	477.3	222.4	190.4	183.3	195.0	208.9	225.8	237.6	245.6
37.5°	1606.0	1255.0	360.2	199.2	173.2	166.5	175.7	183.8	190.4	193.9	197.5
40°	1687.7	1268.0	288.5	187.4	163.4	155.0	158.8	161.8	165.9	169.4	171.0
42.5°	1808.2	1307.4	258.7	182.8	158.5	146.2	145.3	146.7	152.2	158.5	159.7
45°	1976.7	1376.5	256.6	185.8	155.9	139.1	135.3	136.9	145.3	155.0	156.8
47.5°	2192.0	1481.8	273.4	194.7	158.0	135.3	128.9	131.1	141.6	154.6	156.8
50°	2452.8	1628.7	301.7	207.7	167.3	136.1	126.8	128.1	139.1	153.3	155.4
52.5°	2760.9	1837.4	332.5	220.4	177.0	141.6	128.5	125.6	135.6	148.3	150.8
55°	3103.3	2104.8	364.1	231.8	181.9	148.3	132.0	122.2	129.4	139.9	142.0
57.5°	3523.7	2479.0	418.8	242.6	185.4	152.9	135.3	118.8	121.4	128.9	130.7
60°	4092.9	3008.1	515.3	260.8	193.0	154.6	134.8	115.8	113.4	117.6	118.3
62.5°	4775.0	3582.7	595.8	283.5	205.6	155.9	132.3	113.7	106.5	106.5	107.4
65°	5179.8	3736.5	551.1	302.5	216.1	154.6	129.4	111.7	101.5	96.8	97.3
67.5°	4836.6	3286.1	472.2	306.3	215.8	148.7	124.8	107.8	96.5	89.3	88.9
69°	4406.4	2835.3	436.8	296.3	205.6	141.2	118.8	103.7	92.6	85.1	84.7
70°	4059.6	2560.2	413.7	285.2	194.7	135.6	114.2	99.8	89.7	82.6	81.7
72.5°	2951.7	1677.7	353.5	245.1	160.4	113.7	98.5	87.7	80.0	75.8	75.0
75°	1474.9	800.0	286.9	198.9	123.0	91.0	80.8	73.3	69.4	68.7	68.2
77.5°	484.5	366.5	205.2	148.3	91.4	71.1	65.2	59.8	59.0	61.5	60.6
80°	266.3	213.2	130.2	98.2	62.3	52.2	51.5	48.5	49.8	53.9	53.1
82.5°	135.6	110.9	80.5	59.0	42.1	37.5	40.9	39.2	40.9	44.6	44.2
85°	67.1	60.6	50.9	35.8	27.8	24.1	29.0	30.4	31.3	34.1	34.1
87.5°	38.7	35.8	26.9	16.9	14.0	12.7	16.9	16.3	19.4	21.1	20.7
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)