

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: P200682

Luminaire Tested: **GPC-AF-02-LED-E1-T3R-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-8030-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11369 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

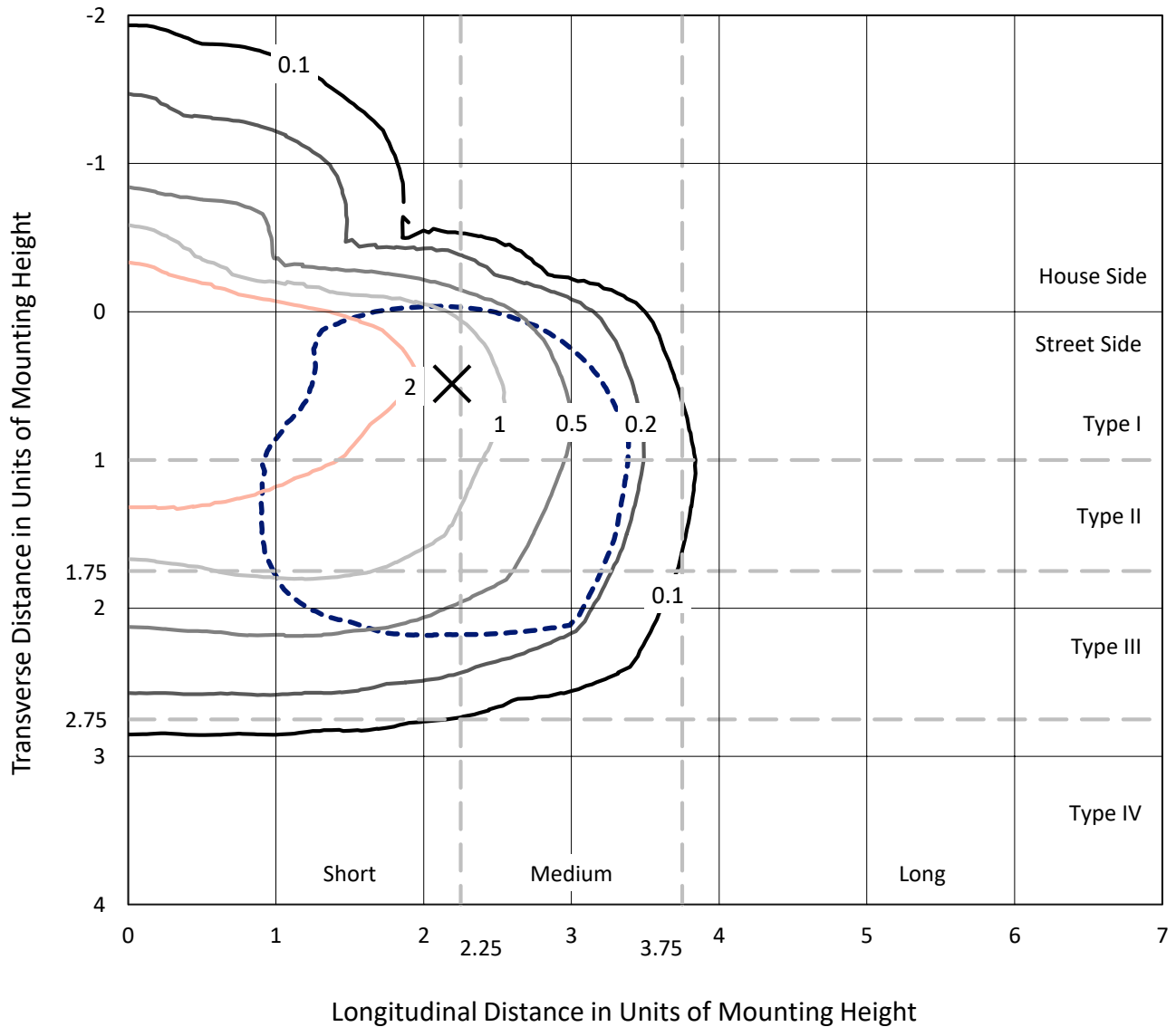
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

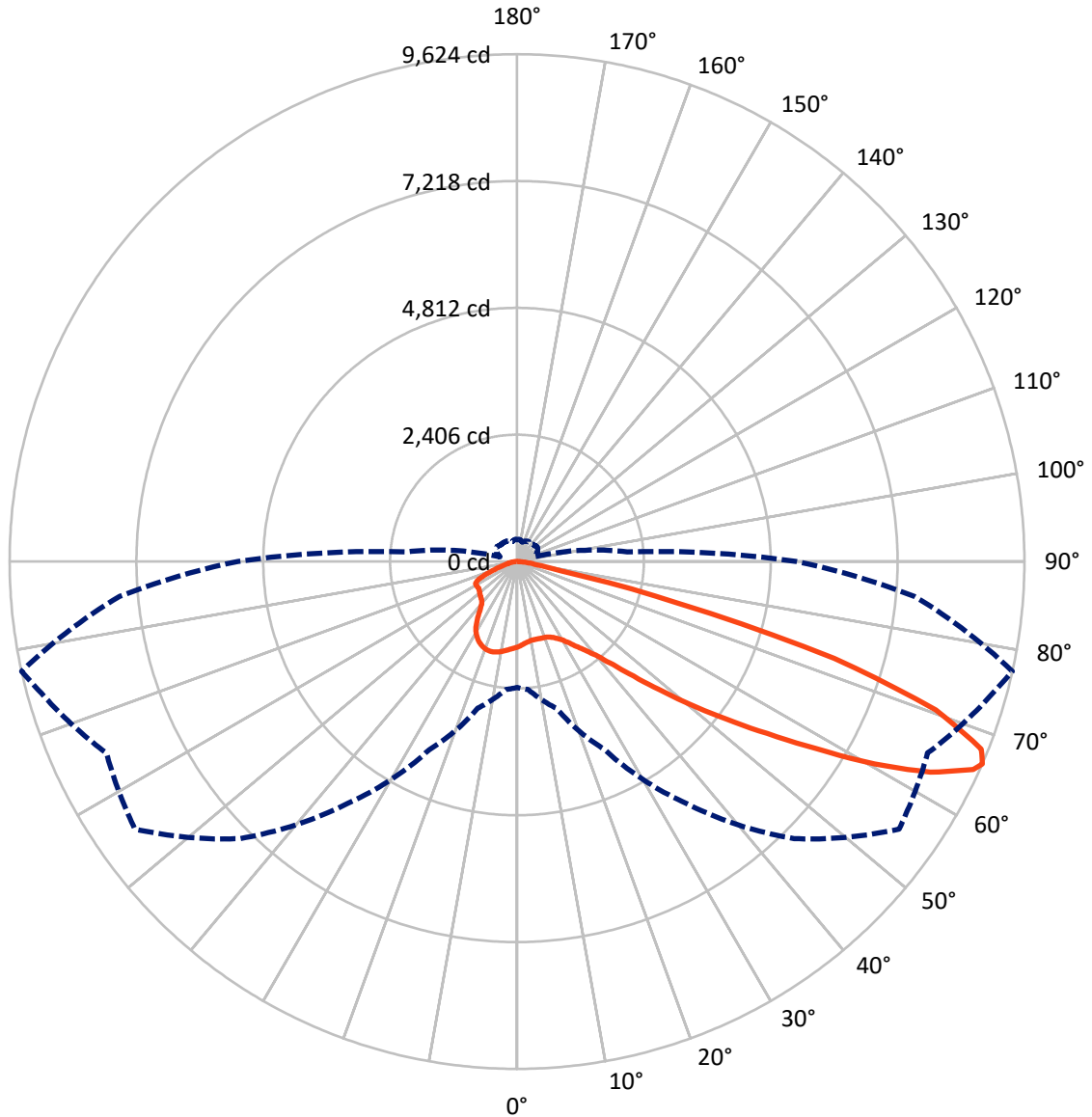
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1942.3	0.0	1942.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	9426.7	0.0	9426.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	11369.0	0.0	11369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	1.3
10°-20°	408.4	3.6
20°-30°	696.9	6.1
30°-40°	1115.6	9.8
40°-50°	1723.6	15.2
50°-60°	2444.6	21.5
60°-70°	3270.2	28.8
70°-80°	1420.2	12.5
80°-90°	144.8	1.3
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°	11369.0	100.0
0°-180°	11369.0	100.0

Coefficient of Utilization



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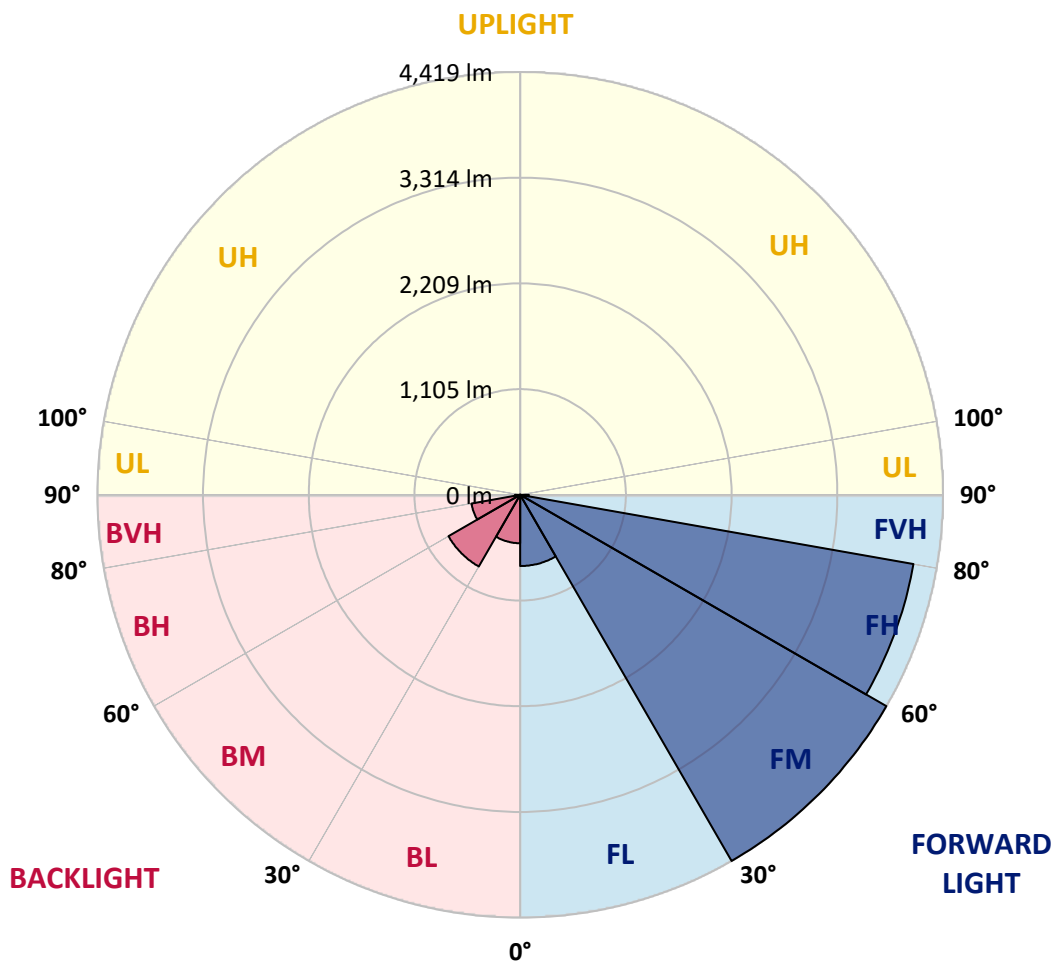
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	744.2	6.5			
FM	(30°-60°)	4418.6	38.9			
FH	(60°-80°)	4173.1	36.7			G2/5000
FVH	(80°-90°)	90.8	0.8			G1/100
BL	(0°-30°)	505.9	4.4	B2/1000		
BM	(30°-60°)	865.2	7.6	B1/1000		
BH	(60°-80°)	517.3	4.5	B2/1000		G2/1000
BVH	(80°-90°)	54.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1
2.5°	1433.2	1442.9	1450.9	1458.4	1473.5	1498.2	1526.7	1549.8	1583.1	1589.5	1607.2
5°	1301.6	1301.6	1308.0	1319.3	1339.7	1376.8	1415.5	1467.0	1539.6	1556.7	1604.0
7.5°	1237.7	1238.2	1242.0	1251.6	1269.4	1303.2	1345.6	1406.3	1504.6	1533.1	1613.7
10°	1261.3	1255.9	1247.9	1243.0	1245.7	1265.6	1305.9	1373.6	1483.2	1519.7	1635.2
12.5°	1393.4	1383.2	1355.3	1318.2	1282.8	1268.3	1291.9	1358.0	1474.0	1516.5	1663.6
15°	1609.4	1605.1	1553.0	1476.2	1390.2	1318.2	1302.1	1352.1	1475.1	1520.2	1697.5
17.5°	1880.1	1874.2	1805.5	1693.7	1553.5	1413.3	1338.1	1356.9	1478.9	1526.7	1730.3
20°	2153.6	2135.3	2061.2	1927.9	1748.0	1542.8	1397.7	1369.3	1483.7	1533.7	1764.6
22.5°	2357.7	2342.6	2276.0	2146.6	1939.2	1692.7	1477.8	1390.8	1499.3	1554.1	1807.1
25°	2537.1	2538.2	2472.1	2346.9	2132.6	1851.7	1580.9	1448.2	1539.0	1596.0	1865.1
27.5°	2759.0	2746.1	2684.3	2560.2	2323.8	2012.3	1705.5	1527.2	1598.1	1655.6	1941.4
30°	3024.3	3015.2	2943.7	2803.0	2536.0	2184.7	1847.9	1619.1	1674.4	1734.0	2041.3
32.5°	3336.4	3332.1	3258.0	3077.0	2781.0	2387.8	2015.0	1740.5	1788.3	1850.0	2184.7
35°	3702.8	3703.3	3615.8	3398.2	3049.0	2624.1	2204.6	1896.8	1926.9	1991.3	2355.5
37.5°	3928.4	3955.8	3923.0	3701.2	3352.5	2888.4	2450.6	2104.1	2084.8	2149.8	2538.7
40°	3976.7	4010.1	4113.7	4000.9	3692.0	3179.6	2668.7	2303.4	2279.3	2358.8	2774.5
42.5°	3909.1	3955.3	4174.4	4253.9	4052.5	3538.4	2962.0	2599.4	2568.8	2675.7	3067.8
45°	3868.8	3903.2	4156.7	4385.5	4365.1	3944.0	3335.4	2971.1	2959.9	3100.1	3406.3
47.5°	3798.9	3830.1	4074.0	4416.2	4548.8	4315.7	3783.9	3425.6	3447.6	3631.3	3788.2
50°	3836.5	3849.4	3981.6	4338.3	4602.0	4588.1	4285.1	3952.0	4027.2	4256.6	4220.6
52.5°	3831.2	3864.5	3970.8	4210.4	4609.0	4756.2	4778.8	4539.2	4697.6	4960.9	4700.3
55°	3097.4	3158.6	3844.6	4178.2	4633.7	4921.1	5218.2	5158.0	5453.5	5760.2	5241.8
57.5°	2957.7	2996.4	3376.7	4245.9	4764.8	5235.9	5707.0	5839.2	6333.4	6689.5	5901.5
60°	2930.3	2978.1	3371.9	4328.6	5030.7	5748.9	6431.7	6663.7	7404.0	7794.0	6666.4
62.5°	2844.9	2896.5	3340.2	4317.9	5408.3	6458.5	7359.4	7540.4	8419.2	8798.5	7306.2
65°	2574.2	2622.5	3081.8	4144.3	5663.0	7215.9	8457.4	8344.0	9220.7	9505.9	7625.3
66°	2388.8	2436.1	2878.2	3940.2	5603.9	7430.8	8846.3	8592.7	9400.1	9623.6	7563.0
67.5°	2049.9	2086.9	2482.8	3483.1	5289.6	7491.0	9173.4	8779.7	9418.9	9497.9	7206.8
70°	1295.1	1305.9	1613.7	2404.4	4004.1	6496.7	8675.5	8315.6	8642.2	8428.4	6041.7
72.5°	561.9	558.1	774.6	1223.2	2266.9	4359.2	7017.7	6861.4	6779.2	6291.5	4229.2
75°	312.6	316.9	402.3	567.8	921.3	2141.2	4590.7	4393.1	3709.2	3165.1	1917.7
77.5°	250.9	256.8	333.6	402.9	413.6	746.7	2148.2	1748.0	1052.3	844.4	532.9
80°	198.2	209.0	291.2	313.7	278.8	307.8	694.0	554.9	416.3	381.9	276.1
82.5°	156.9	164.4	249.8	237.4	195.0	207.4	332.5	323.9	270.7	246.6	159.5
85°	112.8	126.8	205.2	178.9	127.8	139.7	220.8	211.6	155.2	126.8	70.4
87.5°	46.2	60.2	145.0	118.7	71.4	65.0	110.1	103.7	73.6	53.7	34.9
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°	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1	1620.1
2.5°	1618.5	1631.4	1648.1	1658.3	1663.6	1667.4	1673.3	1672.8	1674.4	1674.9	1677.1
5°	1629.3	1650.8	1674.9	1681.4	1681.4	1675.5	1669.6	1659.9	1656.1	1655.1	1656.1
7.5°	1657.2	1680.8	1701.8	1694.3	1678.2	1654.5	1623.9	1597.0	1582.5	1577.7	1576.6
10°	1692.7	1721.1	1729.7	1701.3	1654.0	1597.0	1536.3	1492.3	1467.0	1460.1	1457.9
12.5°	1735.6	1762.5	1750.7	1690.5	1602.9	1511.1	1427.3	1356.9	1304.3	1287.6	1286.5
15°	1782.9	1803.9	1762.5	1657.2	1526.7	1391.3	1242.0	1120.6	1055.0	1034.1	1032.5
17.5°	1827.0	1837.7	1755.5	1599.2	1414.4	1195.2	997.0	903.5	881.0	886.3	887.4
20°	1864.6	1864.6	1731.9	1515.9	1237.7	936.8	811.7	810.1	826.2	842.3	845.5
22.5°	1905.9	1881.2	1690.5	1398.3	987.3	766.6	748.3	763.3	781.6	799.3	802.0
25°	1956.9	1894.6	1633.0	1219.9	776.2	696.2	703.2	715.5	724.7	735.9	737.5
27.5°	2013.9	1911.8	1557.3	974.4	673.6	652.1	657.5	661.8	660.7	665.0	666.1
30°	2082.1	1931.7	1453.6	761.7	631.2	614.5	604.9	601.1	601.1	608.1	610.8
32.5°	2173.4	1961.2	1304.8	652.7	610.8	587.7	556.5	542.6	547.9	571.6	576.9
35°	2273.9	1992.9	1103.4	615.6	606.5	575.3	527.0	501.2	501.7	523.8	530.7
37.5°	2383.5	2033.2	882.6	608.6	616.1	575.9	511.4	475.9	461.4	461.4	464.1
40°	2523.7	2074.6	714.5	613.5	636.6	582.3	503.3	456.1	415.2	416.3	418.5
42.5°	2706.3	2110.0	624.2	623.7	661.3	590.9	502.8	429.7	394.3	418.5	440.5
45°	2909.4	2127.8	584.5	632.8	681.1	596.3	494.2	425.4	397.0	469.0	510.9
47.5°	3143.0	2117.6	562.4	636.0	686.0	596.3	484.5	435.7	415.8	543.1	592.0
50°	3399.3	2088.0	540.9	629.6	684.4	595.2	493.7	445.9	422.8	556.0	589.8
52.5°	3700.6	2063.3	518.4	615.6	673.1	589.3	504.4	441.6	400.7	505.5	529.1
55°	4044.4	2070.3	493.1	595.7	655.4	578.0	500.7	424.4	377.6	445.3	459.8
57.5°	4483.8	2153.6	463.0	570.5	631.2	559.2	487.2	416.3	370.7	404.0	412.6
60°	4974.3	2298.6	425.4	545.2	601.1	529.1	477.0	420.1	373.9	400.7	405.0
62.5°	5334.2	2382.9	393.2	508.2	560.3	495.8	464.1	424.9	382.5	412.0	410.9
65°	5432.0	2244.3	352.9	453.9	504.9	460.9	448.0	430.3	386.2	421.1	416.3
66°	5295.0	2095.0	335.2	428.7	477.0	443.7	440.0	429.7	384.6	422.2	414.2
67.5°	4962.5	1788.8	304.6	391.6	432.4	417.9	427.1	424.9	380.3	421.1	409.9
70°	4047.1	1220.5	260.5	326.1	359.9	368.0	402.3	407.7	366.4	402.3	377.6
72.5°	2827.7	743.5	230.5	253.0	291.2	313.7	368.5	384.1	347.6	351.3	327.7
75°	1366.6	394.8	209.0	196.1	226.2	262.1	327.7	351.9	318.0	293.8	285.2
77.5°	426.0	241.2	177.3	157.9	177.3	211.6	274.0	308.3	283.1	246.0	242.8
80°	228.8	177.3	136.4	126.8	140.2	166.0	215.4	257.3	243.3	220.8	197.1
82.5°	150.9	115.0	101.0	98.3	106.9	126.8	160.1	213.3	213.3	189.1	137.5
85°	77.9	70.4	69.3	69.3	74.7	84.3	109.0	164.4	175.1	99.9	82.7
87.5°	38.7	40.3	37.6	39.2	41.9	41.4	52.1	82.7	98.8	60.7	50.5
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)