

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: P200680

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200680  
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  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10365 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

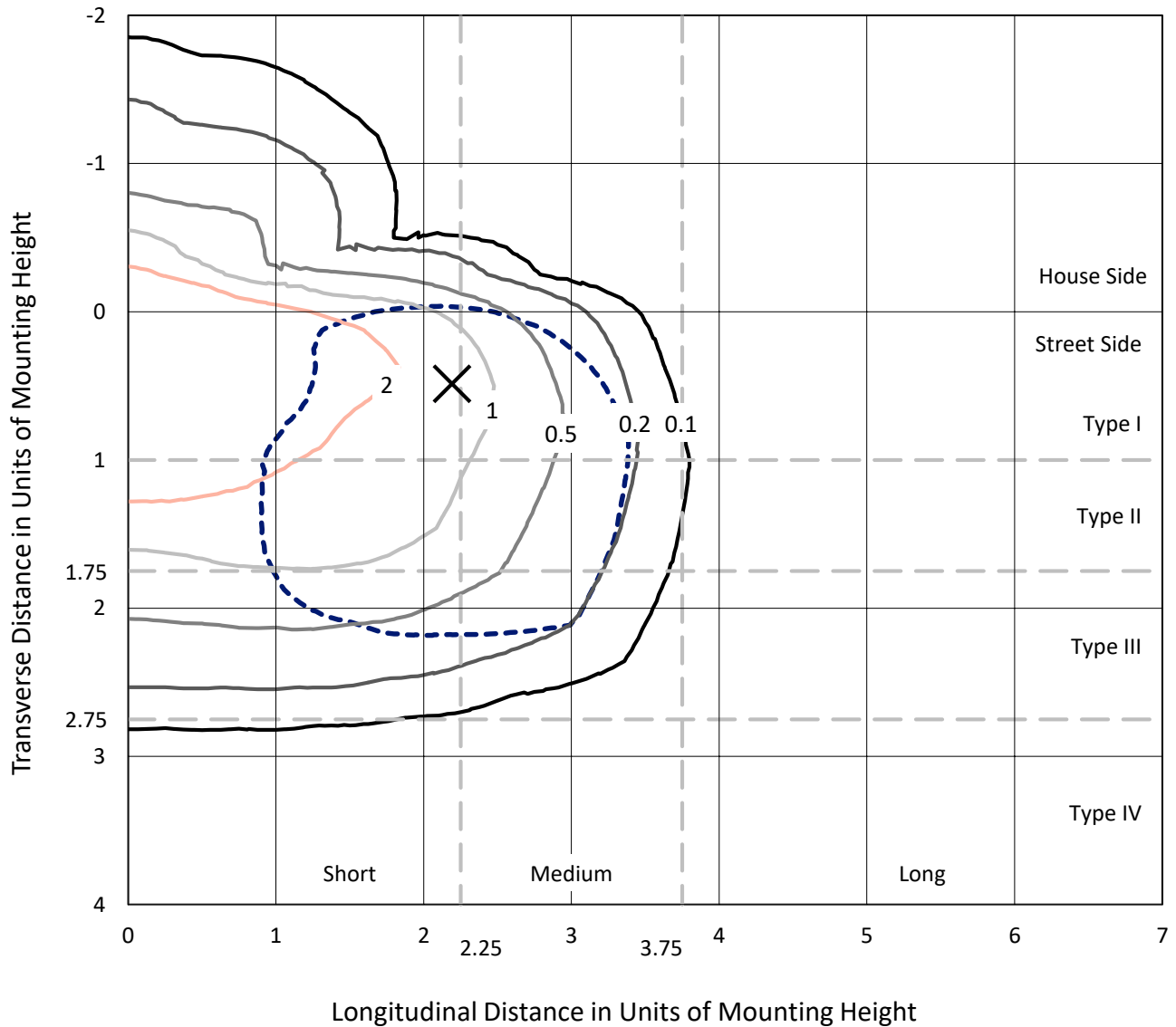
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

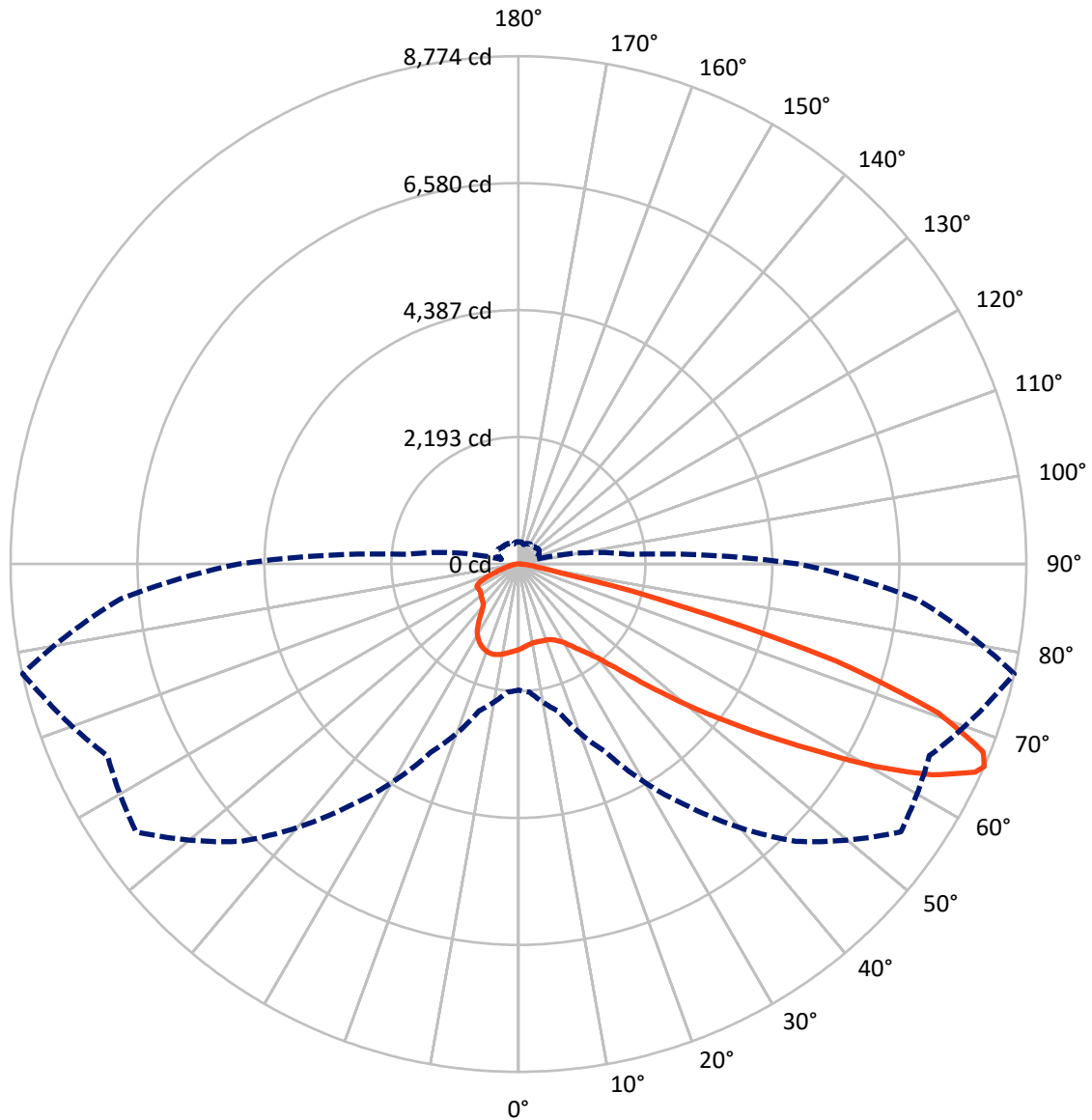
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Short - Full Cutoff

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CATALOG NUMBER: GPC-AF-02-LED-E1-T3R-8030

### 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
<b>House Side</b>	Lumens	1770.8	0.0	1770.8
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	8594.2	0.0	8594.2
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	10365.0	0.0	10365.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.0	1.3
10°-20°	372.3	3.6
20°-30°	635.4	6.1
30°-40°	1017.1	9.8
40°-50°	1571.3	15.2
50°-60°	2228.7	21.5
60°-70°	2981.4	28.8
70°-80°	1294.8	12.5
80°-90°	132.0	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°	10365.0	100.0
0°-180°	10365.0	100.0



REPORT NUMBER: P200680

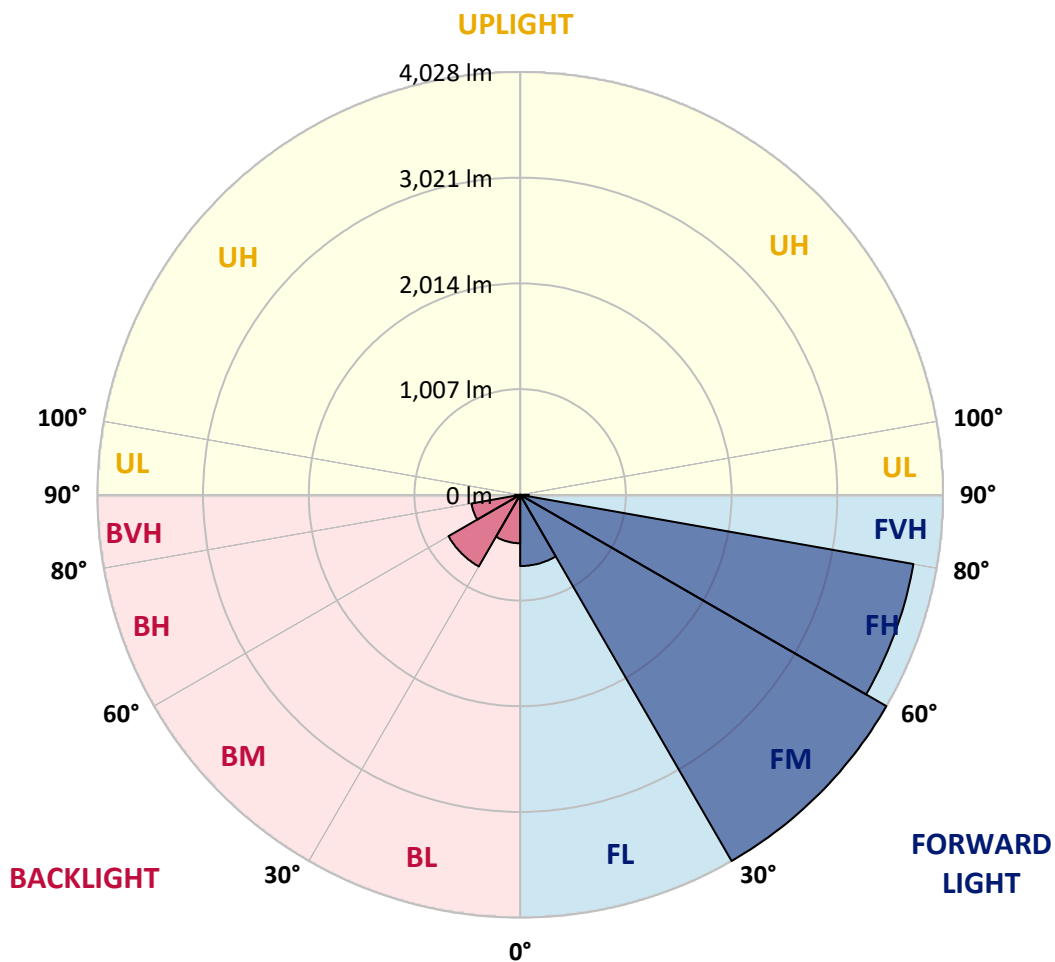
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	678.4	6.5			
FM	(30°-60°)	4028.4	38.9			
FH	(60°-80°)	3804.6	36.7			G2/5000
FVH	(80°-90°)	82.8	0.8			G1/100
BL	(0°-30°)	461.2	4.4	B1/500		
BM	(30°-60°)	788.8	7.6	B1/1000		
BH	(60°-80°)	471.6	4.5	B1/500		G1/500
BVH	(80°-90°)	49.2	0.5			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 Short





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CATALOG NUMBER: GPC-AF-02-LED-E1-T3R-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1
2.5°	1306.6	1315.4	1322.8	1329.6	1343.4	1365.9	1391.8	1412.9	1443.3	1449.1	1465.3
5°	1186.6	1186.6	1192.5	1202.8	1221.4	1255.2	1290.5	1337.5	1403.6	1419.3	1462.4
7.5°	1128.4	1128.9	1132.3	1141.1	1157.3	1188.1	1226.8	1282.1	1371.8	1397.7	1471.2
10°	1149.9	1145.0	1137.7	1133.3	1135.7	1153.8	1190.6	1252.3	1352.2	1385.5	1490.8
12.5°	1270.4	1261.1	1235.6	1201.8	1169.5	1156.3	1177.8	1238.1	1343.9	1382.5	1516.7
15°	1467.3	1463.3	1415.8	1345.8	1267.5	1201.8	1187.1	1232.7	1344.8	1386.0	1547.6
17.5°	1714.1	1708.7	1646.0	1544.2	1416.3	1288.5	1219.9	1237.1	1348.3	1391.8	1577.5
20°	1963.4	1946.7	1879.1	1757.7	1593.6	1406.5	1274.3	1248.4	1352.7	1398.2	1608.8
22.5°	2149.5	2135.8	2075.0	1957.0	1768.0	1543.2	1347.3	1267.9	1366.9	1416.8	1647.5
25°	2313.1	2314.0	2253.8	2139.7	1944.3	1688.1	1441.3	1320.3	1403.1	1455.0	1700.4
27.5°	2515.3	2503.6	2447.2	2334.1	2118.6	1834.6	1554.9	1392.3	1457.0	1509.4	1769.9
30°	2757.2	2748.9	2683.8	2555.5	2312.1	1991.8	1684.7	1476.1	1526.5	1580.9	1861.0
32.5°	3041.8	3037.9	2970.3	2805.2	2535.4	2176.9	1837.0	1586.8	1630.4	1686.7	1991.8
35°	3375.8	3376.3	3296.5	3098.1	2779.8	2392.4	2009.9	1729.3	1756.7	1815.5	2147.5
37.5°	3581.5	3606.5	3576.6	3374.3	3056.5	2633.3	2234.2	1918.3	1900.7	1959.9	2314.5
40°	3625.6	3655.9	3750.4	3647.6	3366.0	2898.8	2433.0	2100.0	2078.0	2150.5	2529.5
42.5°	3563.9	3606.0	3805.8	3878.3	3694.6	3225.9	2700.4	2369.9	2341.9	2439.4	2796.9
45°	3527.1	3558.5	3789.6	3998.3	3979.6	3595.7	3040.8	2708.8	2698.5	2826.3	3105.5
47.5°	3463.5	3491.9	3714.2	4026.2	4147.1	3934.6	3449.7	3123.1	3143.2	3310.7	3453.7
50°	3497.7	3509.5	3630.0	3955.2	4195.6	4182.9	3906.7	3603.0	3671.6	3880.7	3847.9
52.5°	3492.8	3523.2	3620.2	3838.6	4202.0	4336.2	4356.7	4138.3	4282.8	4522.8	4285.2
55°	2823.9	2879.7	3505.1	3809.2	4224.5	4486.5	4757.4	4702.5	4971.9	5251.5	4778.9
57.5°	2696.5	2731.8	3078.5	3870.9	4344.0	4773.5	5203.0	5323.5	5774.1	6098.8	5380.3
60°	2671.5	2715.1	3074.1	3946.3	4586.4	5241.2	5863.7	6075.2	6750.1	7105.7	6077.7
62.5°	2593.7	2640.7	3045.2	3936.5	4930.7	5888.2	6709.5	6874.5	7675.7	8021.5	6661.0
65°	2346.8	2390.9	2809.6	3778.4	5162.9	6578.7	7710.5	7607.2	8406.4	8666.5	6951.9
66°	2177.9	2221.0	2624.0	3592.3	5109.0	6774.6	8065.1	7833.9	8570.0	8773.7	6895.1
67.5°	1868.9	1902.6	2263.6	3175.5	4822.5	6829.5	8363.3	8004.3	8587.1	8659.1	6570.4
70°	1180.8	1190.6	1471.2	2192.1	3650.5	5922.9	7909.3	7581.2	7879.0	7684.1	5508.1
72.5°	512.3	508.8	706.2	1115.1	2066.7	3974.3	6398.0	6255.5	6180.5	5735.9	3855.7
75°	285.0	288.9	366.8	517.7	839.9	1952.1	4185.3	4005.1	3381.7	2885.6	1748.4
77.5°	228.7	234.1	304.1	367.3	377.1	680.7	1958.5	1593.6	959.4	769.9	485.8
80°	180.7	190.5	265.4	286.0	254.2	280.6	632.7	505.9	379.6	348.2	251.7
82.5°	143.0	149.9	227.7	216.5	177.8	189.0	303.2	295.3	246.8	224.8	145.5
85°	102.8	115.6	187.1	163.1	116.6	127.3	201.3	193.0	141.5	115.6	64.2
87.5°	42.1	54.9	132.2	108.2	65.1	59.3	100.4	94.5	67.1	49.0	31.8
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°	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1
2.5°	1475.6	1487.3	1502.5	1511.8	1516.7	1520.2	1525.5	1525.1	1526.5	1527.0	1529.0
5°	1485.4	1505.0	1527.0	1532.9	1532.9	1527.5	1522.1	1513.3	1509.9	1508.9	1509.9
7.5°	1510.9	1532.4	1551.5	1544.6	1530.0	1508.4	1480.5	1456.0	1442.8	1438.4	1437.4
10°	1543.2	1569.1	1577.0	1551.0	1507.9	1456.0	1400.7	1360.5	1337.5	1331.1	1329.2
12.5°	1582.4	1606.8	1596.1	1541.2	1461.4	1377.6	1301.2	1237.1	1189.1	1173.9	1172.9
15°	1625.5	1644.6	1606.8	1510.9	1391.8	1268.4	1132.3	1021.6	961.9	942.8	941.3
17.5°	1665.6	1675.4	1600.5	1458.0	1289.5	1089.7	909.0	823.7	803.2	808.1	809.1
20°	1699.9	1699.9	1578.9	1382.1	1128.4	854.1	740.0	738.5	753.2	767.9	770.9
22.5°	1737.6	1715.1	1541.2	1274.8	900.1	698.9	682.2	695.9	712.6	728.7	731.2
25°	1784.1	1727.3	1488.8	1112.2	707.7	634.7	641.1	652.3	660.7	670.9	672.4
27.5°	1836.0	1743.0	1419.8	888.4	614.1	594.5	599.4	603.4	602.4	606.3	607.3
30°	1898.2	1761.1	1325.2	694.5	575.4	560.3	551.4	548.0	548.0	554.4	556.8
32.5°	1981.5	1788.0	1189.6	595.0	556.8	535.8	507.4	494.6	499.5	521.1	526.0
35°	2073.1	1816.9	1005.9	561.2	552.9	524.5	480.4	456.9	457.4	477.5	483.9
37.5°	2173.0	1853.7	804.6	554.9	561.7	525.0	466.2	433.9	420.7	420.7	423.1
40°	2300.8	1891.4	651.4	559.3	580.3	530.9	458.9	415.8	378.6	379.6	381.5
42.5°	2467.3	1923.7	569.1	568.6	602.9	538.7	458.4	391.8	359.5	381.5	401.6
45°	2652.4	1939.9	532.8	576.9	621.0	543.6	450.6	387.9	361.9	427.5	465.7
47.5°	2865.5	1930.6	512.8	579.9	625.4	543.6	441.7	397.2	379.1	495.1	539.7
50°	3099.1	1903.6	493.2	574.0	623.9	542.6	450.1	406.5	385.4	506.9	537.7
52.5°	3373.8	1881.1	472.6	561.2	613.6	537.2	459.9	402.6	365.3	460.8	482.4
55°	3687.3	1887.5	449.6	543.1	597.5	527.0	456.4	386.9	344.3	406.0	419.2
57.5°	4087.9	1963.4	422.2	520.1	575.4	509.8	444.2	379.6	337.9	368.3	376.1
60°	4535.0	2095.6	387.9	497.1	548.0	482.4	434.9	383.0	340.9	365.3	369.3
62.5°	4863.1	2172.5	358.5	463.3	510.8	452.0	423.1	387.4	348.7	375.6	374.7
65°	4952.3	2046.1	321.8	413.8	460.4	420.2	408.4	392.3	352.1	384.0	379.6
66°	4827.4	1910.0	305.6	390.8	434.9	404.5	401.1	391.8	350.7	384.9	377.6
67.5°	4524.2	1630.8	277.7	357.0	394.2	381.0	389.3	387.4	346.7	384.0	373.7
70°	3689.7	1112.7	237.5	297.3	328.1	335.5	366.8	371.7	334.0	366.8	344.3
72.5°	2578.0	677.8	210.1	230.7	265.4	286.0	336.0	350.2	316.9	320.3	298.7
75°	1245.9	360.0	190.5	178.8	206.2	239.0	298.7	320.8	289.9	267.9	260.1
77.5°	388.4	219.9	161.6	144.0	161.6	193.0	249.8	281.1	258.1	224.3	221.4
80°	208.6	161.6	124.4	115.6	127.8	151.3	196.4	234.6	221.9	201.3	179.7
82.5°	137.6	104.8	92.1	89.6	97.5	115.6	145.9	194.4	194.4	172.4	125.4
85°	71.0	64.2	63.2	63.2	68.1	76.9	99.4	149.9	159.7	91.1	75.4
87.5°	35.3	36.7	34.3	35.8	38.2	37.7	47.5	75.4	90.1	55.3	46.0
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)