

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: P200358

Luminaire Tested: **GPC-AF-02-LED-E1-T3R-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200358
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-7050-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10262 lumens
Efficiency: N/A
Efficacy: 119.3 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

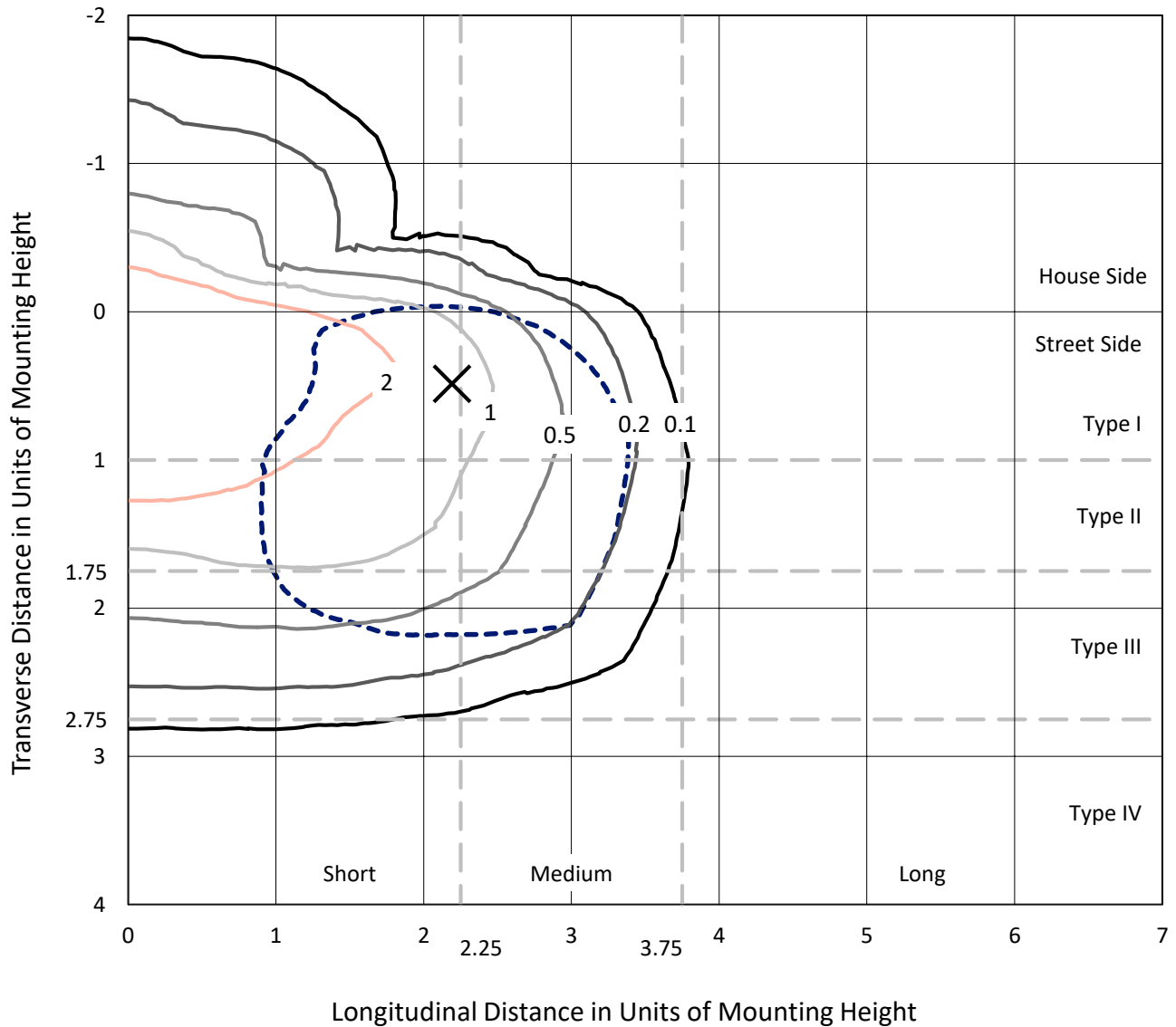
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P200358
 CATALOG NUMBER: GPC-AF-02-LED-E1-T3R-7050-800

Iso-Footcandle Lines of Horizontal Illumination

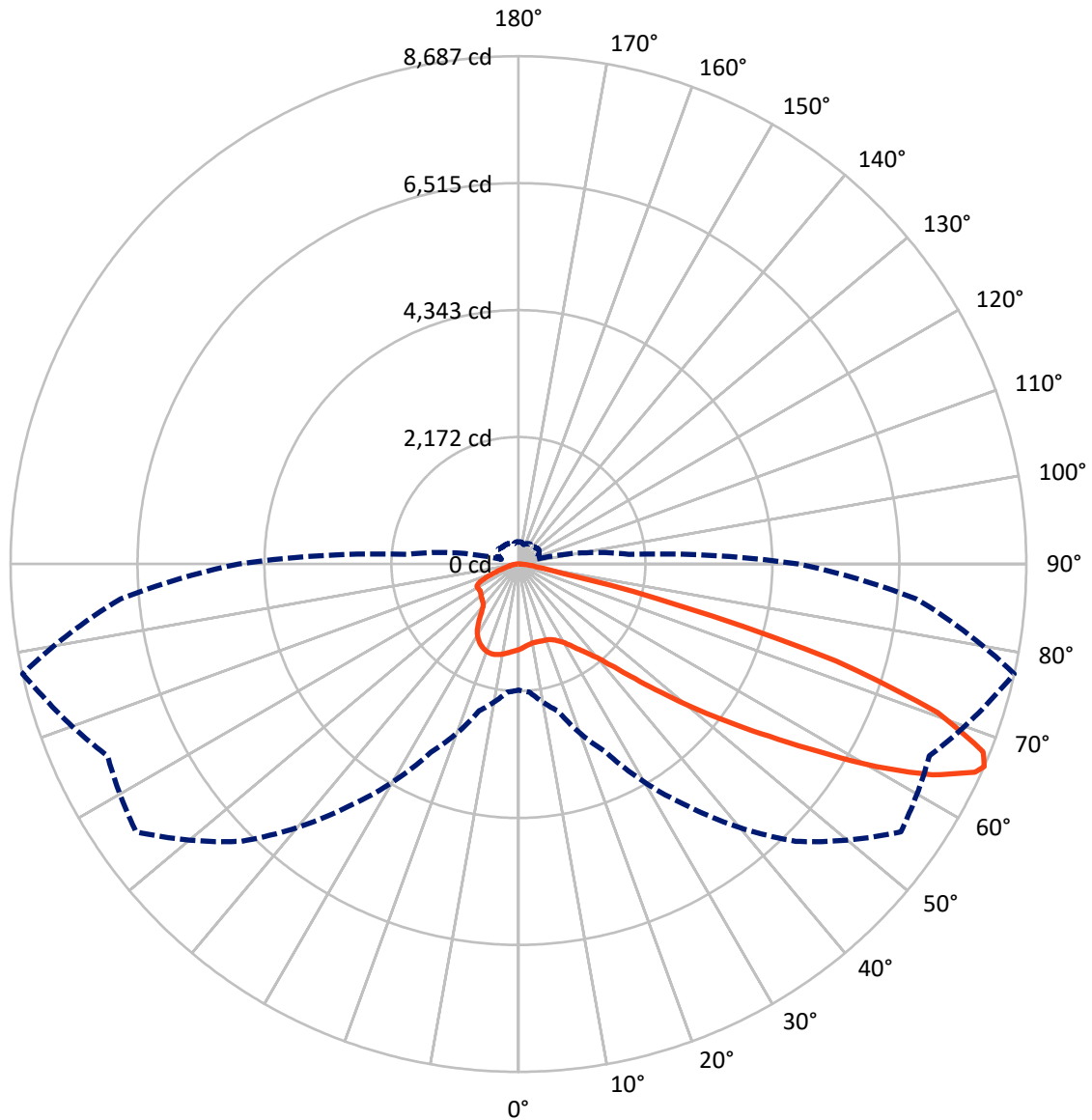
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P200358
CATALOG NUMBER: GPC-AF-02-LED-E1-T3R-7050-800

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GPC-AF-02-LED-E1-T3R-7050-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1753.2	0.0	1753.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	8508.8	0.0	8508.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	10262.0	0.0	10262.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	1.3
10°-20°	368.6	3.6
20°-30°	629.1	6.1
30°-40°	1007.0	9.8
40°-50°	1555.7	15.2
50°-60°	2206.6	21.5
60°-70°	2951.8	28.8
70°-80°	1281.9	12.5
80°-90°	130.7	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°	10262.0	100.0
0°-180°	10262.0	100.0



REPORT NUMBER: P200358

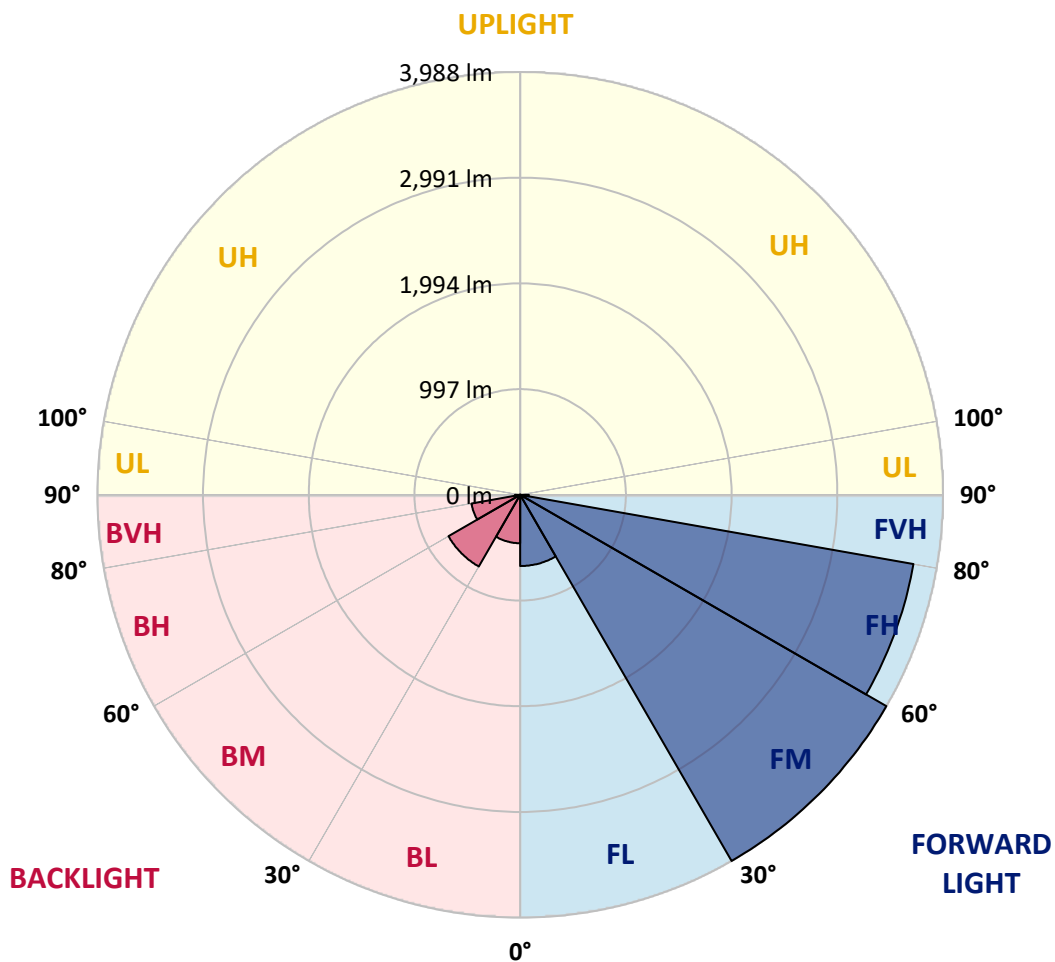
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	671.7	6.5			
FM	(30°-60°)	3988.4	38.9			
FH	(60°-80°)	3766.8	36.7			G2/5000
FVH	(80°-90°)	82.0	0.8			G1/100
BL	(0°-30°)	456.6	4.4	B1/500		
BM	(30°-60°)	781.0	7.6	B1/1000		
BH	(60°-80°)	466.9	4.5	B1/500		G1/500
BVH	(80°-90°)	48.7	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





REPORT NUMBER: P200358

CATALOG NUMBER: GPC-AF-02-LED-E1-T3R-7050-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4
2.5°	1293.6	1302.4	1309.6	1316.4	1330.0	1352.3	1378.0	1398.9	1428.9	1434.7	1450.7
5°	1174.9	1174.9	1180.7	1190.9	1209.3	1242.7	1277.6	1324.2	1389.7	1405.2	1447.8
7.5°	1117.2	1117.6	1121.0	1129.8	1145.8	1176.3	1214.6	1269.4	1358.1	1383.8	1456.6
10°	1138.5	1133.6	1126.4	1122.0	1124.4	1142.4	1178.7	1239.8	1338.7	1371.7	1476.0
12.5°	1257.8	1248.6	1223.3	1189.9	1157.9	1144.8	1166.1	1225.8	1330.5	1368.8	1501.7
15°	1452.7	1448.8	1401.8	1332.4	1254.9	1189.9	1175.3	1220.4	1331.5	1372.2	1532.2
17.5°	1697.1	1691.7	1629.7	1528.8	1402.3	1275.7	1207.8	1224.8	1334.9	1378.0	1561.8
20°	1943.9	1927.4	1860.5	1740.2	1577.8	1392.6	1261.6	1235.9	1339.2	1384.3	1592.8
22.5°	2128.1	2114.5	2054.4	1937.6	1750.4	1527.8	1333.9	1255.3	1353.3	1402.7	1631.1
25°	2290.1	2291.0	2231.4	2118.4	1925.0	1671.4	1427.0	1307.2	1389.2	1440.6	1683.5
27.5°	2490.3	2478.7	2422.9	2310.9	2097.6	1816.3	1539.5	1378.5	1442.5	1494.4	1752.3
30°	2729.8	2721.6	2657.1	2530.1	2289.1	1972.0	1668.0	1461.4	1511.4	1565.2	1842.5
32.5°	3011.6	3007.7	2940.8	2777.4	2510.2	2155.3	1818.8	1571.0	1614.1	1669.9	1972.0
35°	3342.2	3342.7	3263.7	3067.3	2752.2	2368.6	1989.9	1712.1	1739.2	1797.4	2126.2
37.5°	3545.9	3570.6	3541.0	3340.8	3026.1	2607.2	2212.0	1899.3	1881.8	1940.5	2291.5
40°	3589.5	3619.6	3713.2	3611.4	3332.5	2870.0	2408.9	2079.1	2057.3	2129.1	2504.4
42.5°	3528.4	3570.1	3768.0	3839.7	3657.9	3193.9	2673.6	2346.3	2318.7	2415.2	2769.1
45°	3492.1	3523.1	3752.0	3958.5	3940.1	3560.0	3010.6	2681.8	2671.7	2798.2	3074.6
47.5°	3429.0	3457.2	3677.3	3986.2	4105.9	3895.5	3415.5	3092.0	3111.9	3277.8	3419.3
50°	3463.0	3474.6	3593.9	3915.9	4153.9	4141.3	3867.8	3567.2	3635.1	3842.2	3809.7
52.5°	3458.1	3488.2	3584.2	3800.5	4160.2	4293.1	4313.5	4097.2	4240.2	4477.8	4242.7
55°	2795.8	2851.1	3470.3	3771.4	4182.5	4441.9	4710.1	4655.8	4922.5	5199.3	4731.4
57.5°	2669.7	2704.6	3047.9	3832.5	4300.8	4726.1	5151.3	5270.6	5716.7	6038.2	5326.8
60°	2645.0	2688.1	3043.6	3907.1	4540.9	5189.1	5805.4	6014.9	6683.0	7035.1	6017.3
62.5°	2567.9	2614.4	3015.0	3897.4	4881.7	5829.7	6642.8	6806.2	7599.4	7941.8	6594.8
65°	2323.5	2367.2	2781.7	3740.8	5111.6	6513.3	7633.9	7531.6	8322.9	8580.4	6882.8
66°	2156.2	2198.9	2598.0	3556.6	5058.2	6707.3	7984.9	7756.1	8484.8	8686.5	6826.6
67.5°	1850.3	1883.7	2241.1	3143.9	4774.6	6761.6	8280.2	7924.8	8501.8	8573.1	6505.1
70°	1169.0	1178.7	1456.6	2170.3	3614.3	5864.1	7830.7	7505.9	7800.7	7607.7	5453.4
72.5°	507.2	503.8	699.2	1104.1	2046.2	3934.8	6334.4	6193.3	6119.1	5678.9	3817.4
75°	282.2	286.1	363.2	512.5	831.6	1932.7	4143.7	3965.3	3348.1	2856.9	1731.0
77.5°	226.4	231.8	301.1	363.7	373.4	674.0	1939.0	1577.8	949.9	762.2	481.0
80°	178.9	188.6	262.8	283.2	251.7	277.8	626.5	500.9	375.8	344.7	249.2
82.5°	141.6	148.4	225.5	214.3	176.0	187.2	300.1	292.4	244.4	222.6	144.0
85°	101.8	114.4	185.2	161.5	115.4	126.1	199.3	191.0	140.1	114.4	63.5
87.5°	41.7	54.3	130.9	107.2	64.5	58.7	99.4	93.6	66.4	48.5	31.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P200358

CATALOG NUMBER: GPC-AF-02-LED-E1-T3R-7050-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4
2.5°	1460.9	1472.6	1487.6	1496.8	1501.7	1505.1	1510.4	1509.9	1511.4	1511.8	1513.8
5°	1470.6	1490.0	1511.8	1517.7	1517.7	1512.3	1507.0	1498.3	1494.9	1493.9	1494.9
7.5°	1495.8	1517.2	1536.1	1529.3	1514.8	1493.4	1465.8	1441.5	1428.4	1424.1	1423.1
10°	1527.8	1553.5	1561.3	1535.6	1492.9	1441.5	1386.7	1347.0	1324.2	1317.9	1316.0
12.5°	1566.6	1590.9	1580.2	1525.9	1446.9	1364.0	1288.3	1224.8	1177.3	1162.2	1161.3
15°	1609.3	1628.2	1590.9	1495.8	1378.0	1255.8	1121.0	1011.4	952.3	933.4	931.9
17.5°	1649.1	1658.8	1584.6	1443.5	1276.7	1078.8	899.9	815.6	795.2	800.0	801.0
20°	1683.0	1683.0	1563.2	1368.3	1117.2	845.6	732.6	731.2	745.7	760.3	763.2
22.5°	1720.3	1698.0	1525.9	1262.1	891.2	691.9	675.4	689.0	705.5	721.5	723.9
25°	1766.4	1710.2	1474.0	1101.2	700.6	628.4	634.7	645.9	654.1	664.3	665.7
27.5°	1817.8	1725.7	1405.7	879.6	608.0	588.6	593.5	597.4	596.4	600.3	601.2
30°	1879.4	1743.6	1312.1	687.6	569.7	554.7	546.0	542.6	542.6	548.9	551.3
32.5°	1961.8	1770.3	1177.8	589.1	551.3	530.5	502.3	489.7	494.6	515.9	520.8
35°	2052.5	1798.9	995.9	555.7	547.4	519.3	475.7	452.4	452.9	472.8	479.1
37.5°	2151.4	1835.3	796.7	549.4	556.2	519.8	461.6	429.6	416.5	416.5	418.9
40°	2277.9	1872.6	644.9	553.7	574.6	525.6	454.3	411.7	374.8	375.8	377.7
42.5°	2442.8	1904.6	563.4	562.9	596.9	533.4	453.8	387.9	355.9	377.7	397.6
45°	2626.1	1920.6	527.5	571.2	614.8	538.2	446.1	384.0	358.3	423.3	461.1
47.5°	2837.0	1911.4	507.7	574.1	619.2	538.2	437.4	393.2	375.3	490.2	534.3
50°	3068.3	1884.7	488.3	568.3	617.7	537.2	445.6	402.4	381.6	501.8	532.4
52.5°	3340.3	1862.4	467.9	555.7	607.5	531.9	455.3	398.6	361.7	456.3	477.6
55°	3650.6	1868.7	445.1	537.7	591.5	521.7	451.9	383.1	340.9	402.0	415.1
57.5°	4047.3	1943.9	418.0	514.9	569.7	504.8	439.8	375.8	334.6	364.6	372.4
60°	4489.9	2074.8	384.0	492.1	542.6	477.6	430.6	379.2	337.5	361.7	365.6
62.5°	4814.8	2150.9	354.9	458.7	505.7	447.5	418.9	383.5	345.2	371.9	370.9
65°	4903.1	2025.8	318.6	409.7	455.8	416.0	404.4	388.4	348.6	380.1	375.8
66°	4779.4	1891.0	302.6	386.9	430.6	400.5	397.1	387.9	347.2	381.1	373.8
67.5°	4479.3	1614.6	274.9	353.5	390.3	377.2	385.5	383.5	343.3	380.1	370.0
70°	3653.1	1101.6	235.2	294.3	324.9	332.1	363.2	368.0	330.7	363.2	340.9
72.5°	2552.4	671.1	208.0	228.4	262.8	283.2	332.6	346.7	313.7	317.1	295.8
75°	1233.5	356.4	188.6	177.0	204.1	236.6	295.8	317.6	287.0	265.2	257.5
77.5°	384.5	217.7	160.0	142.6	160.0	191.0	247.3	278.3	255.5	222.1	219.2
80°	206.6	160.0	123.2	114.4	126.6	149.8	194.4	232.3	219.6	199.3	177.9
82.5°	136.2	103.8	91.2	88.7	96.5	114.4	144.5	192.5	192.5	170.7	124.1
85°	70.3	63.5	62.5	62.5	67.4	76.1	98.4	148.4	158.1	90.2	74.7
87.5°	34.9	36.4	33.9	35.4	37.8	37.3	47.0	74.7	89.2	54.8	45.6
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)