

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: P270071

Luminaire Tested: **GPC-AF-02-LED-E1-T3R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270071
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-7027-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 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: 8915.8 lumens
Efficiency: N/A
Efficacy: 103.7 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

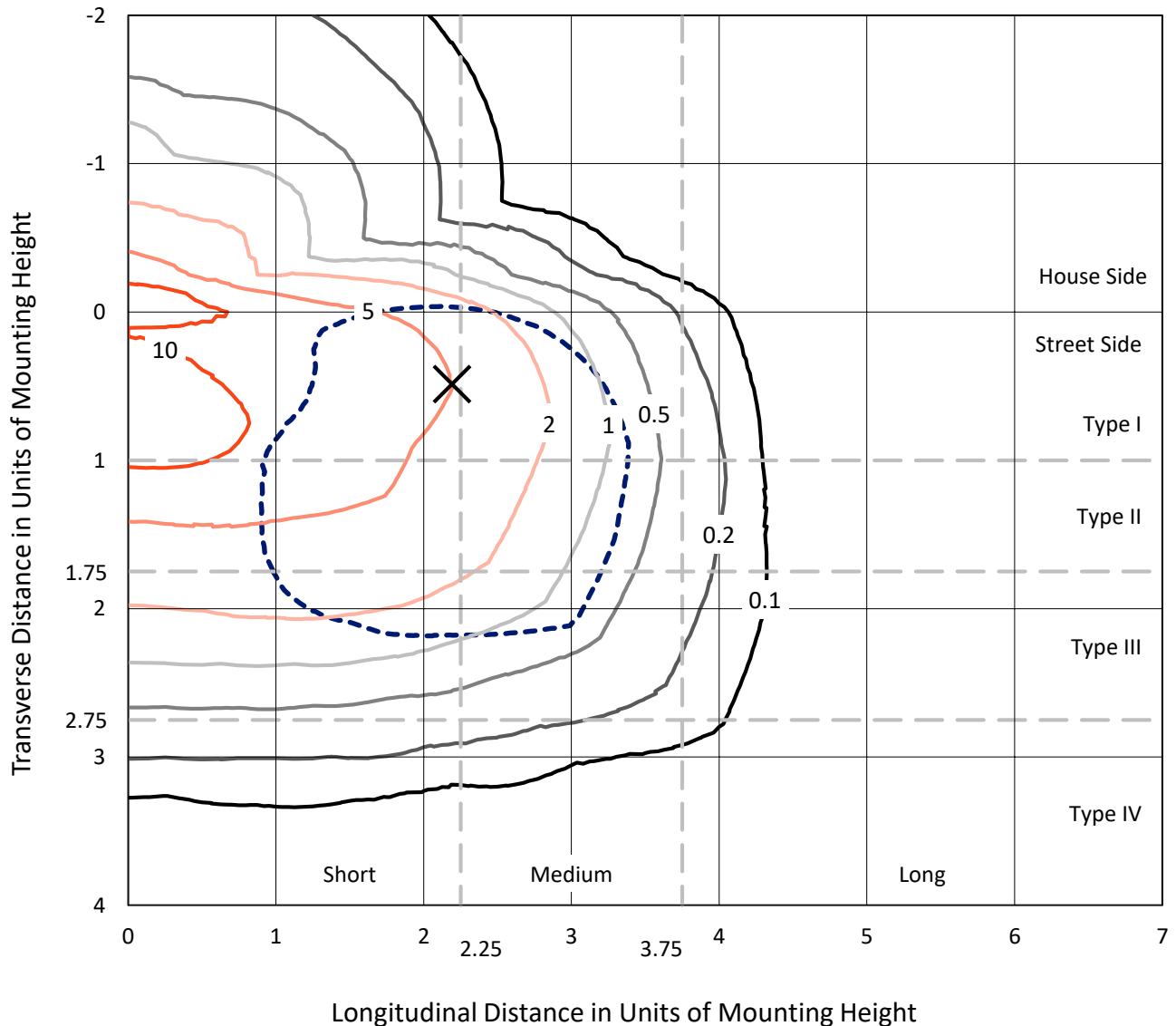
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P270071
 CATALOG NUMBER: GPC-AF-02-LED-E1-T3R-7027-800

Iso-Footcandle Lines of Horizontal Illumination

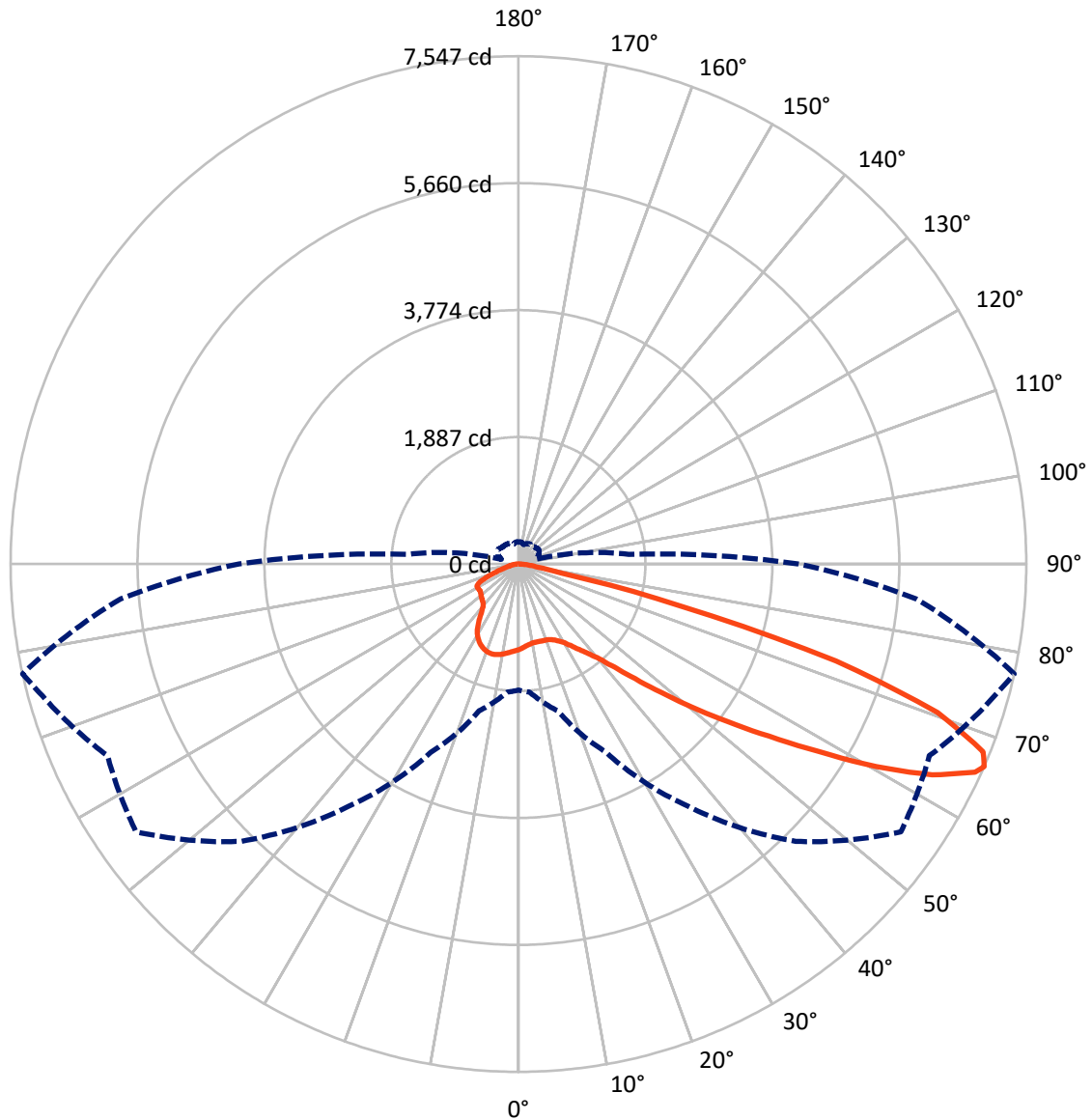
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.7 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P270071
CATALOG NUMBER: GPC-AF-02-LED-E1-T3R-7027-800

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-7027-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1523.2	0.0	1523.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	7392.6	0.0	7392.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	8915.8	0.0	8915.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	1.3
10°-20°	320.2	3.6
20°-30°	546.5	6.1
30°-40°	874.9	9.8
40°-50°	1351.6	15.2
50°-60°	1917.1	21.5
60°-70°	2564.6	28.8
70°-80°	1113.7	12.5
80°-90°	113.6	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°	8915.8	100.0
0°-180°	8915.8	100.0



REPORT NUMBER: P270071

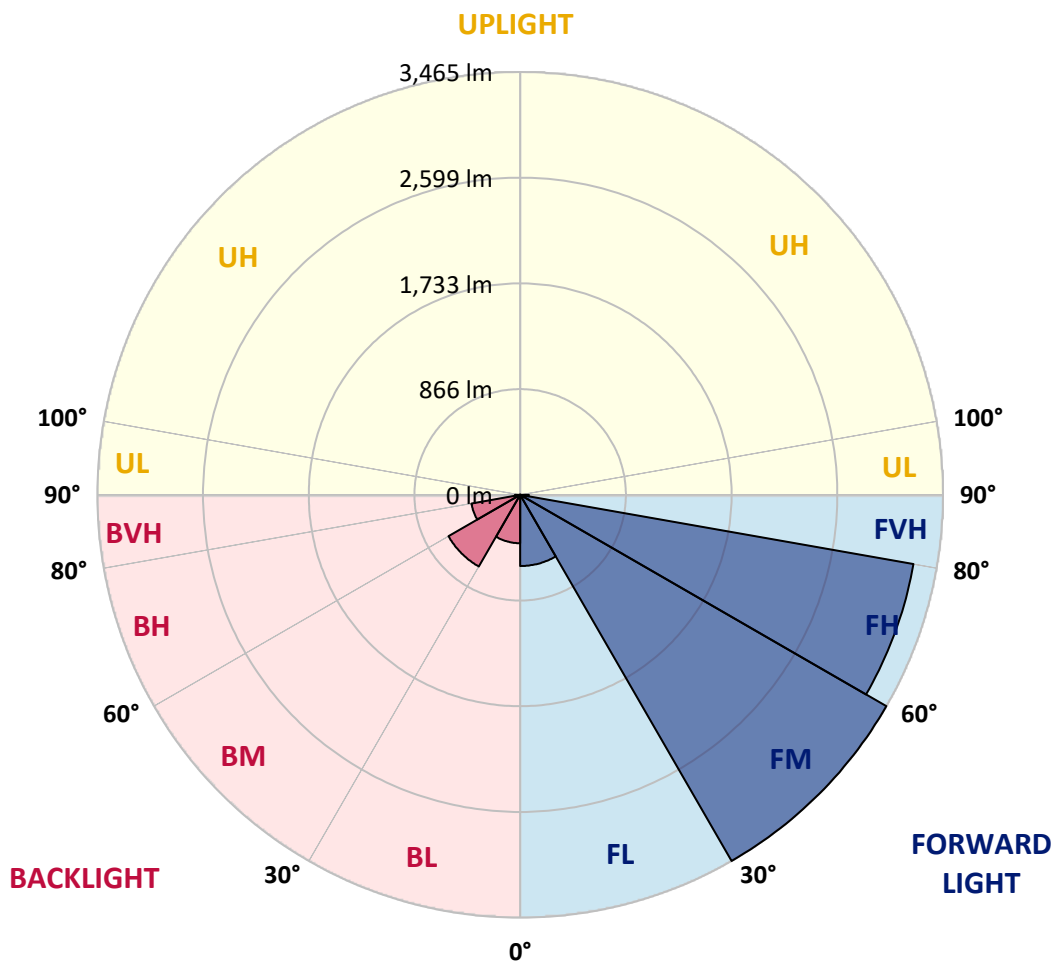
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	583.6	6.5			
FM	(30°-60°)	3465.1	38.9			
FH	(60°-80°)	3272.6	36.7			G2/5000
FVH	(80°-90°)	71.2	0.8			G1/100
BL	(0°-30°)	396.7	4.4	B1/500		
BM	(30°-60°)	678.5	7.6	B1/1000		
BH	(60°-80°)	405.7	4.5	B1/500		G1/500
BVH	(80°-90°)	42.3	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: P270071

CATALOG NUMBER: GPC-AF-02-LED-E1-T3R-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6
2.5°	1123.9	1131.5	1137.9	1143.7	1155.5	1175.0	1197.3	1215.3	1241.5	1246.5	1260.4
5°	1020.7	1020.7	1025.8	1034.7	1050.7	1079.8	1110.0	1150.5	1207.3	1220.8	1257.8
7.5°	970.6	971.0	973.9	981.6	995.4	1022.0	1055.2	1102.8	1180.0	1202.3	1265.5
10°	989.2	984.9	978.7	974.8	976.9	992.4	1024.1	1077.2	1163.1	1191.7	1282.3
12.5°	1092.8	1084.8	1062.9	1033.8	1006.0	994.7	1013.2	1065.0	1155.9	1189.3	1304.7
15°	1262.1	1258.7	1217.9	1157.6	1090.3	1033.8	1021.2	1060.3	1156.7	1192.2	1331.2
17.5°	1474.5	1469.7	1415.9	1328.2	1218.3	1108.4	1049.4	1064.1	1159.7	1197.3	1356.9
20°	1688.9	1674.5	1616.4	1511.9	1370.9	1209.8	1096.1	1073.8	1163.6	1202.7	1383.8
22.5°	1848.9	1837.2	1784.9	1683.3	1520.8	1327.4	1159.0	1090.6	1175.7	1218.7	1417.2
25°	1989.7	1990.5	1938.6	1840.4	1672.5	1452.1	1239.8	1135.7	1207.0	1251.6	1462.6
27.5°	2163.6	2153.4	2105.1	2007.7	1822.4	1578.1	1337.5	1197.7	1253.2	1298.3	1522.4
30°	2371.7	2364.6	2308.6	2198.2	1988.8	1713.2	1449.1	1269.8	1313.1	1359.9	1600.8
32.5°	2616.6	2613.1	2555.0	2412.9	2180.8	1872.5	1580.2	1365.0	1402.4	1450.9	1713.2
35°	2903.9	2904.2	2835.5	2664.9	2391.1	2057.8	1728.9	1487.6	1511.0	1561.7	1847.3
37.5°	3080.7	3102.1	3076.5	2902.6	2629.1	2265.2	1921.8	1650.0	1634.9	1685.8	1991.0
40°	3118.6	3144.7	3226.1	3137.6	2895.3	2493.4	2092.8	1806.4	1787.4	1849.8	2175.9
42.5°	3065.6	3101.8	3273.7	3336.0	3178.1	2774.9	2322.8	2038.6	2014.4	2098.4	2405.8
45°	3033.9	3061.0	3259.8	3439.3	3423.3	3093.0	2615.7	2330.1	2321.2	2431.2	2671.3
47.5°	2979.1	3003.7	3194.9	3463.2	3567.3	3384.5	2967.5	2686.4	2703.7	2847.7	2970.8
50°	3008.8	3018.8	3122.4	3402.2	3609.0	3598.0	3360.5	3099.2	3158.3	3338.1	3309.9
52.5°	3004.6	3030.6	3114.1	3301.9	3614.5	3729.9	3747.5	3559.8	3683.9	3890.4	3686.0
55°	2429.0	2477.0	3015.0	3276.6	3633.9	3859.2	4092.1	4045.0	4276.7	4517.2	4110.7
57.5°	2319.6	2349.8	2648.1	3329.7	3736.6	4106.2	4475.5	4579.2	4966.6	5246.0	4628.1
60°	2298.0	2335.6	2644.3	3394.5	3945.1	4508.5	5043.9	5225.8	5806.4	6112.2	5228.0
62.5°	2231.0	2271.5	2619.5	3386.2	4241.3	5065.0	5771.3	5913.4	6602.5	6899.9	5729.7
65°	2018.8	2056.6	2416.8	3250.1	4441.0	5658.9	6632.5	6543.6	7231.0	7454.8	5979.8
66°	1873.3	1910.4	2257.1	3090.0	4394.7	5827.3	6937.4	6738.5	7371.8	7547.0	5931.0
67.5°	1607.5	1636.6	1947.0	2731.4	4148.3	5874.6	7193.9	6885.1	7386.6	7448.4	5651.7
70°	1015.7	1024.1	1265.5	1885.6	3140.1	5094.7	6803.5	6521.2	6777.4	6609.6	4738.0
72.5°	440.7	437.7	607.4	959.2	1777.7	3418.6	5503.5	5380.8	5316.3	4933.9	3316.6
75°	245.1	248.6	315.6	445.3	722.4	1679.2	3600.1	3445.1	2908.8	2482.0	1503.9
77.5°	196.6	201.4	261.5	315.9	324.4	585.5	1684.6	1370.9	825.3	662.2	417.9
80°	155.4	163.9	228.3	246.0	218.6	241.4	544.3	435.1	326.4	299.6	216.5
82.5°	123.0	128.8	195.9	186.2	152.9	162.7	260.8	254.0	212.3	193.3	125.1
85°	88.5	99.4	160.9	140.2	100.3	109.6	173.2	165.9	121.7	99.4	55.2
87.5°	36.2	47.3	113.7	93.2	56.1	50.9	86.3	81.2	57.8	42.1	27.4
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: P270071

CATALOG NUMBER: GPC-AF-02-LED-E1-T3R-7027-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6
2.5°	1269.2	1279.4	1292.4	1300.4	1304.7	1307.7	1312.2	1311.9	1313.1	1313.5	1315.2
5°	1277.7	1294.5	1313.5	1318.5	1318.5	1314.0	1309.3	1301.7	1298.8	1298.0	1298.8
7.5°	1299.6	1318.2	1334.6	1328.7	1316.0	1297.5	1273.4	1252.4	1241.1	1237.2	1236.3
10°	1327.4	1349.8	1356.5	1334.2	1297.2	1252.4	1204.8	1170.3	1150.5	1145.0	1143.4
12.5°	1361.1	1382.2	1372.9	1325.7	1257.1	1185.0	1119.3	1064.1	1022.8	1009.8	1008.9
15°	1398.2	1414.7	1382.2	1299.6	1197.3	1091.1	973.9	878.7	827.3	810.9	809.7
17.5°	1432.7	1441.2	1376.7	1254.2	1109.1	937.3	781.9	708.6	690.8	695.1	695.9
20°	1462.3	1462.3	1358.1	1188.7	970.6	734.8	636.4	635.3	647.9	660.6	663.0
22.5°	1494.7	1475.2	1325.7	1096.6	774.2	601.1	586.9	598.6	613.0	626.8	629.0
25°	1534.7	1485.7	1280.7	956.7	608.7	546.0	551.4	561.1	568.3	577.2	578.4
27.5°	1579.3	1499.4	1221.2	764.2	528.3	511.5	515.6	519.0	518.1	521.6	522.4
30°	1632.8	1514.9	1139.9	597.4	495.0	481.9	474.3	471.4	471.4	476.9	478.9
32.5°	1704.4	1538.1	1023.3	511.9	478.9	460.9	436.4	425.4	429.7	448.3	452.4
35°	1783.2	1563.0	865.2	482.7	475.7	451.2	413.3	393.1	393.5	410.7	416.3
37.5°	1869.2	1594.5	692.1	477.3	483.2	451.6	401.1	373.2	361.8	361.8	364.0
40°	1979.1	1626.9	560.4	481.1	499.2	456.7	394.7	357.6	325.6	326.4	328.2
42.5°	2122.3	1654.8	489.4	489.0	518.6	463.3	394.3	337.0	309.1	328.2	345.5
45°	2281.5	1668.6	458.3	496.3	534.1	467.6	387.6	333.6	311.4	367.8	400.6
47.5°	2464.8	1660.6	441.1	498.7	537.9	467.6	380.1	341.6	326.1	425.8	464.2
50°	2665.8	1637.5	424.2	493.7	536.6	466.8	387.1	349.6	331.6	435.9	462.5
52.5°	2902.2	1618.0	406.6	482.7	527.8	462.1	395.6	346.2	314.2	396.4	414.9
55°	3171.7	1623.5	386.7	467.2	513.9	453.3	392.6	332.8	296.1	349.3	360.6
57.5°	3516.3	1688.9	363.2	447.4	495.0	438.6	382.0	326.4	290.7	316.8	323.5
60°	3900.9	1802.5	333.6	427.7	471.4	414.9	374.1	329.4	293.1	314.2	317.6
62.5°	4183.1	1868.7	308.4	398.5	439.5	388.8	364.0	333.2	299.9	323.1	322.2
65°	4259.9	1760.0	276.8	356.0	396.1	361.5	351.3	337.5	302.9	330.2	326.4
66°	4152.4	1642.9	262.8	336.1	374.1	348.0	344.9	337.0	301.7	331.1	324.7
67.5°	3891.6	1402.9	238.9	307.1	339.1	327.7	334.9	333.2	298.2	330.2	321.5
70°	3173.8	957.1	204.4	255.7	282.2	288.5	315.6	319.7	287.3	315.6	296.1
72.5°	2217.6	583.0	180.6	198.4	228.3	246.0	289.0	301.2	272.5	275.5	256.9
75°	1071.7	309.6	163.9	153.8	177.3	205.6	256.9	275.9	249.4	230.4	223.7
77.5°	334.1	189.2	139.0	123.8	139.0	165.9	214.9	241.9	222.1	193.0	190.4
80°	179.4	139.0	107.0	99.4	110.0	130.2	168.9	201.8	190.8	173.2	154.6
82.5°	118.3	90.2	79.2	77.1	83.8	99.4	125.6	167.3	167.3	148.3	107.8
85°	61.1	55.2	54.3	54.3	58.6	66.1	85.5	128.8	137.4	78.3	64.9
87.5°	30.4	31.6	29.5	30.7	32.9	32.3	40.9	64.9	77.6	47.6	39.5
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)