

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: P200677

Luminaire Tested: **GPC-AF-01-LED-E1-T3R-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200677
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-01-LED-E1-T3R-8030-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4285 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

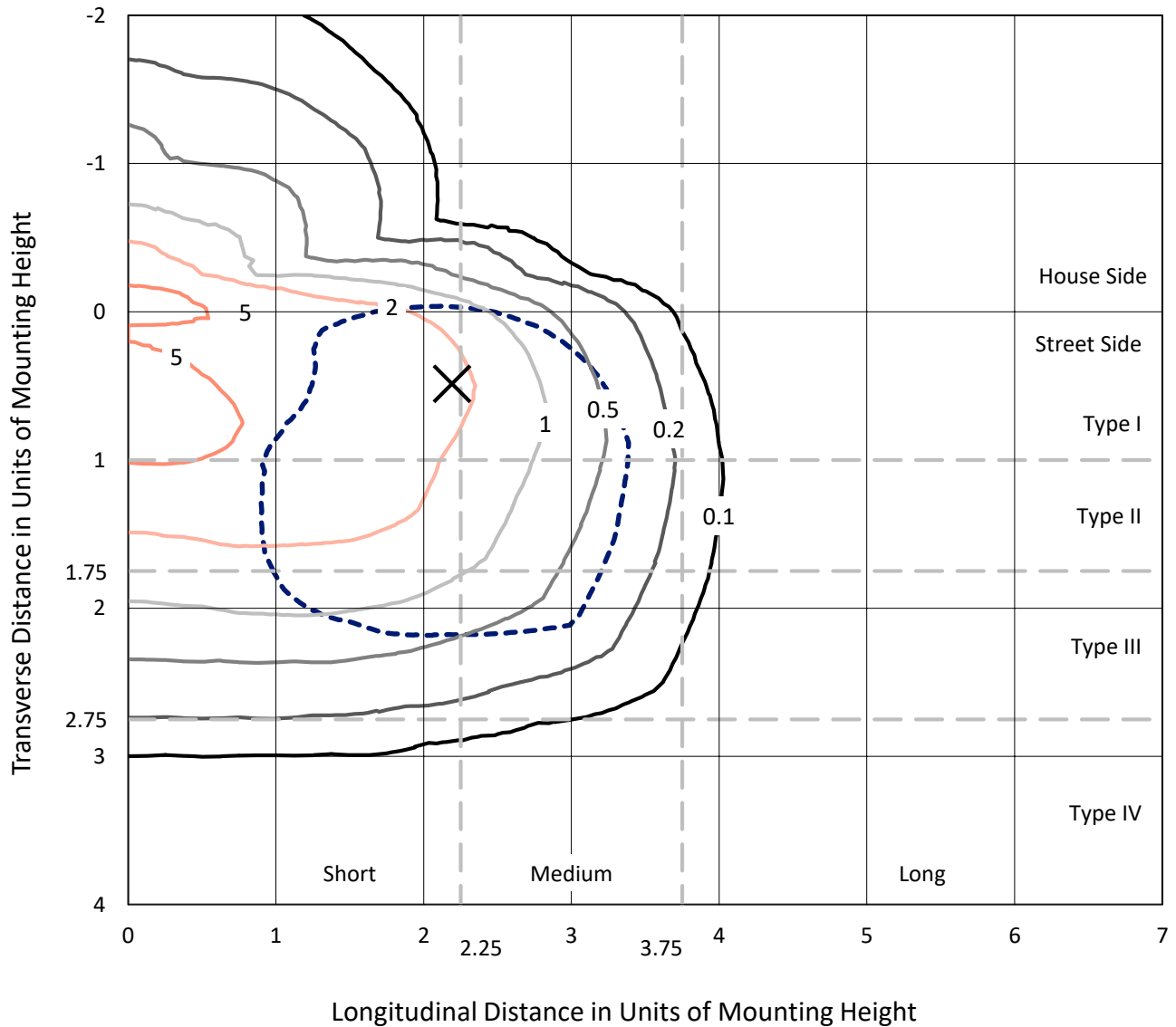
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

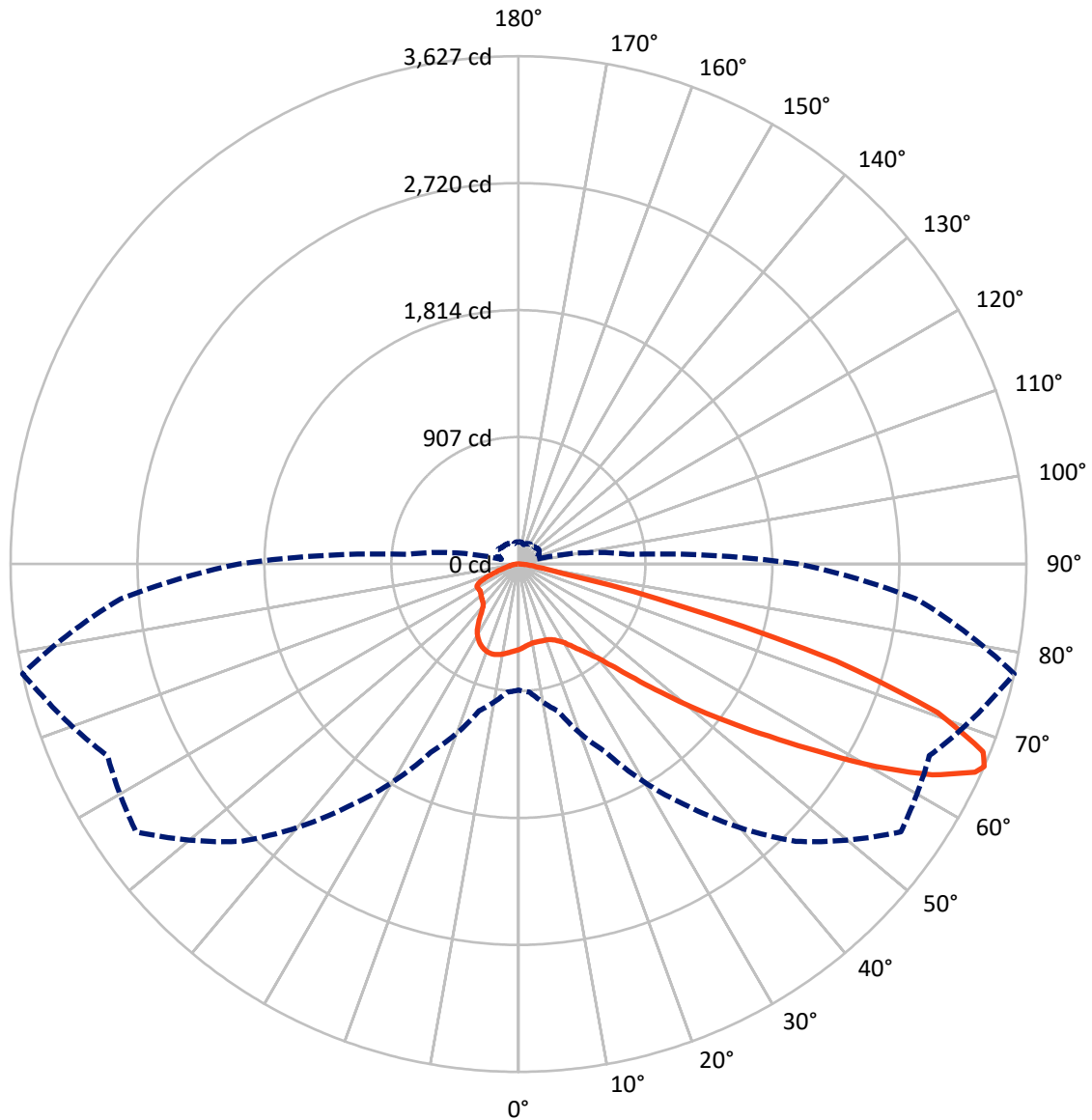


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - Full Cutoff

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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	732.1	0.0	732.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	3552.9	0.0	3552.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	4285.0	0.0	4285.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	1.3
10°-20°	153.9	3.6
20°-30°	262.7	6.1
30°-40°	420.5	9.8
40°-50°	649.6	15.2
50°-60°	921.4	21.5
60°-70°	1232.5	28.8
70°-80°	535.3	12.5
80°-90°	54.6	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°	4285.0	100.0
0°-180°	4285.0	100.0



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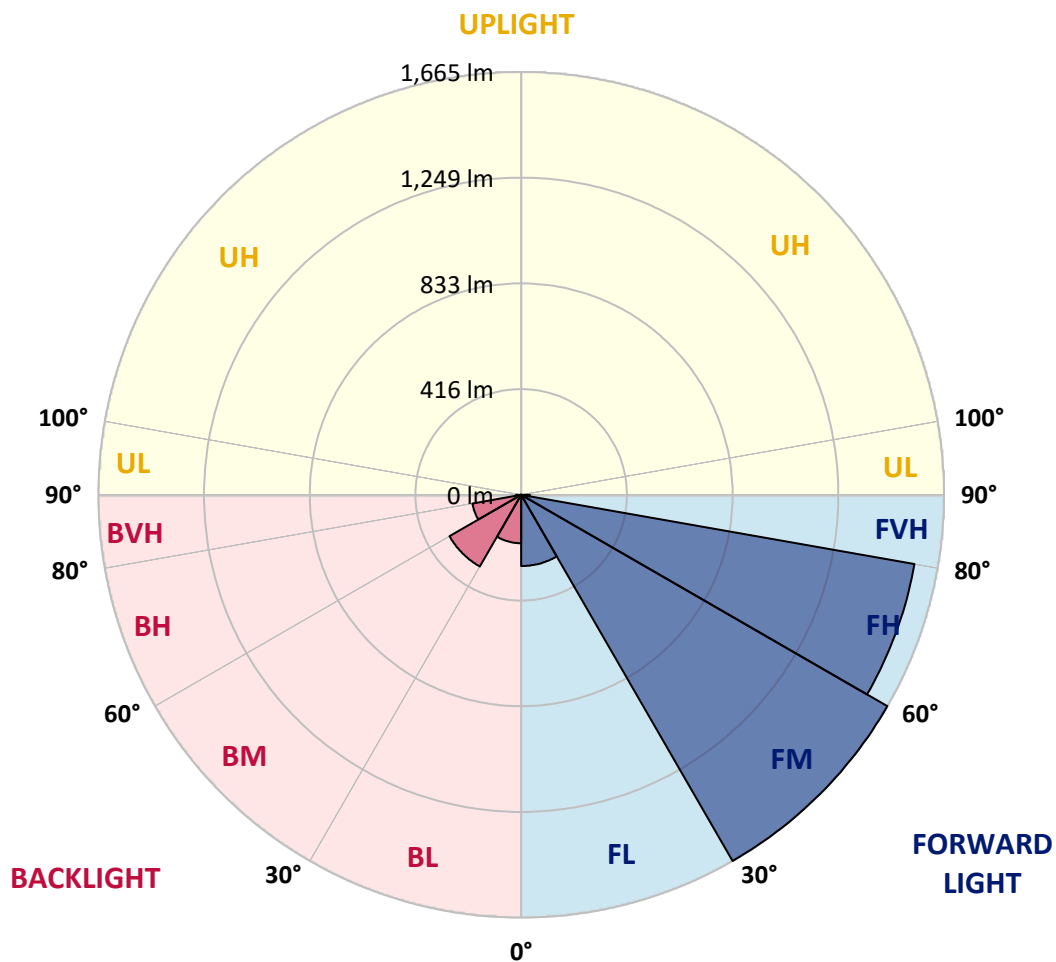
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	280.5	6.5			
FM	(30°-60°)	1665.4	38.9			
FH	(60°-80°)	1572.9	36.7			G1/1800
FVH	(80°-90°)	34.2	0.8			G1/100
BL	(0°-30°)	190.7	4.4	B1/500		
BM	(30°-60°)	326.1	7.6	B1/1000		
BH	(60°-80°)	195.0	4.5	B1/500		G1/500
BVH	(80°-90°)	20.4	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6
2.5°	540.2	543.8	546.9	549.7	555.4	564.7	575.4	584.1	596.7	599.1	605.8
5°	490.6	490.6	493.0	497.3	504.9	518.9	533.5	552.9	580.3	586.7	604.6
7.5°	466.5	466.7	468.1	471.7	478.4	491.2	507.2	530.1	567.1	577.8	608.2
10°	475.4	473.4	470.3	468.5	469.5	477.0	492.2	517.7	559.0	572.8	616.3
12.5°	525.2	521.3	510.8	496.8	483.5	478.0	486.9	511.8	555.6	571.6	627.0
15°	606.6	605.0	585.3	556.4	524.0	496.8	490.8	509.6	556.0	573.0	639.8
17.5°	708.6	706.4	680.5	638.4	585.5	532.7	504.3	511.4	557.4	575.4	652.1
20°	811.7	804.8	776.9	726.6	658.8	581.5	526.8	516.1	559.2	578.0	665.1
22.5°	888.6	882.9	857.8	809.0	730.9	638.0	557.0	524.2	565.1	585.7	681.1
25°	956.2	956.6	931.7	884.6	803.8	697.9	595.9	545.8	580.1	601.5	703.0
27.5°	1039.9	1035.0	1011.7	964.9	875.9	758.4	642.8	575.6	602.3	624.0	731.7
30°	1139.9	1136.4	1109.5	1056.5	955.8	823.4	696.5	610.2	631.1	653.6	769.4
32.5°	1257.5	1255.9	1227.9	1159.7	1048.2	900.0	759.4	656.0	674.0	697.3	823.4
35°	1395.6	1395.8	1362.8	1280.8	1149.2	989.0	830.9	714.9	726.2	750.5	887.8
37.5°	1480.6	1490.9	1478.6	1395.0	1263.6	1088.7	923.6	793.1	785.8	810.3	956.8
40°	1498.8	1511.4	1550.5	1508.0	1391.5	1198.4	1005.8	868.2	859.1	889.0	1045.7
42.5°	1473.3	1490.7	1573.4	1603.3	1527.4	1333.6	1116.4	979.7	968.2	1008.5	1156.3
45°	1458.1	1471.1	1566.7	1652.9	1645.2	1486.5	1257.1	1119.8	1115.6	1168.4	1283.8
47.5°	1431.8	1443.6	1535.5	1664.5	1714.5	1626.6	1426.2	1291.1	1299.4	1368.7	1427.8
50°	1446.0	1450.9	1500.7	1635.1	1734.5	1729.2	1615.1	1489.5	1517.9	1604.3	1590.8
52.5°	1444.0	1456.5	1496.6	1586.9	1737.1	1792.6	1801.1	1710.8	1770.6	1869.8	1771.6
55°	1167.4	1190.5	1449.0	1574.8	1746.5	1854.8	1966.7	1944.1	2055.4	2171.0	1975.6
57.5°	1114.8	1129.3	1272.7	1600.3	1795.9	1973.4	2151.0	2200.8	2387.1	2521.3	2224.3
60°	1104.4	1122.5	1270.9	1631.5	1896.1	2166.8	2424.1	2511.6	2790.6	2937.6	2512.6
62.5°	1072.3	1091.7	1258.9	1627.4	2038.4	2434.2	2773.8	2842.0	3173.2	3316.2	2753.7
65°	970.2	988.4	1161.5	1562.0	2134.4	2719.7	3187.6	3144.9	3475.3	3582.8	2874.0
66°	900.4	918.2	1084.8	1485.1	2112.1	2800.7	3334.2	3238.6	3542.9	3627.2	2850.5
67.5°	772.6	786.6	935.8	1312.8	1993.7	2823.4	3457.5	3309.1	3550.0	3579.8	2716.3
70°	488.1	492.2	608.2	906.2	1509.2	2448.6	3269.8	3134.2	3257.2	3176.7	2277.1
72.5°	211.8	210.4	292.0	461.0	854.4	1643.0	2645.0	2586.1	2555.1	2371.3	1594.0
75°	117.8	119.5	151.6	214.0	347.2	807.0	1730.3	1655.8	1398.0	1192.9	722.8
77.5°	94.6	96.8	125.7	151.8	155.9	281.4	809.7	658.8	396.6	318.3	200.8
80°	74.7	78.8	109.7	118.2	105.1	116.0	261.6	209.1	156.9	144.0	104.1
82.5°	59.1	62.0	94.1	89.5	73.5	78.2	125.3	122.1	102.0	92.9	60.1
85°	42.5	47.8	77.3	67.4	48.2	52.6	83.2	79.8	58.5	47.8	26.5
87.5°	17.4	22.7	54.7	44.7	26.9	24.5	41.5	39.1	27.7	20.2	13.2
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°	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6
2.5°	610.0	614.9	621.2	625.0	627.0	628.4	630.7	630.5	631.1	631.3	632.1
5°	614.1	622.2	631.3	633.7	633.7	631.5	629.3	625.6	624.2	623.8	624.2
7.5°	624.6	633.5	641.4	638.6	632.5	623.6	612.1	601.9	596.5	594.6	594.2
10°	638.0	648.7	651.9	641.2	623.4	601.9	579.0	562.4	552.9	550.3	549.5
12.5°	654.2	664.3	659.8	637.2	604.2	569.5	537.9	511.4	491.6	485.3	484.9
15°	672.0	679.9	664.3	624.6	575.4	524.4	468.1	422.3	397.6	389.7	389.1
17.5°	688.6	692.6	661.7	602.7	533.1	450.5	375.8	340.5	332.0	334.1	334.5
20°	702.8	702.8	652.7	571.4	466.5	353.1	305.9	305.3	311.4	317.5	318.7
22.5°	718.3	709.0	637.2	527.0	372.1	288.9	282.0	287.7	294.6	301.3	302.3
25°	737.6	714.1	615.5	459.8	292.6	262.4	265.0	269.7	273.1	277.4	278.0
27.5°	759.0	720.6	586.9	367.3	253.9	245.8	247.8	249.4	249.0	250.7	251.1
30°	784.8	728.1	547.9	287.1	237.9	231.6	228.0	226.6	226.6	229.2	230.2
32.5°	819.2	739.2	491.8	246.0	230.2	221.5	209.8	204.5	206.5	215.4	217.4
35°	857.0	751.1	415.9	232.0	228.6	216.8	198.6	188.9	189.1	197.4	200.0
37.5°	898.3	766.3	332.6	229.4	232.2	217.0	192.7	179.4	173.9	173.9	174.9
40°	951.2	781.9	269.3	231.2	239.9	219.5	189.7	171.9	156.5	156.9	157.7
42.5°	1020.0	795.3	235.3	235.1	249.2	222.7	189.5	162.0	148.6	157.7	166.0
45°	1096.5	802.0	220.3	238.5	256.7	224.7	186.3	160.4	149.6	176.8	192.5
47.5°	1184.6	798.1	212.0	239.7	258.5	224.7	182.6	164.2	156.7	204.7	223.1
50°	1281.2	787.0	203.9	237.3	257.9	224.3	186.1	168.0	159.3	209.6	222.3
52.5°	1394.8	777.7	195.4	232.0	253.7	222.1	190.1	166.4	151.0	190.5	199.4
55°	1524.4	780.3	185.9	224.5	247.0	217.9	188.7	159.9	142.3	167.8	173.3
57.5°	1690.0	811.7	174.5	215.0	237.9	210.8	183.6	156.9	139.7	152.3	155.5
60°	1874.8	866.3	160.4	205.5	226.6	199.4	179.8	158.3	140.9	151.0	152.7
62.5°	2010.5	898.1	148.2	191.5	211.2	186.9	174.9	160.1	144.2	155.3	154.9
65°	2047.3	845.9	133.0	171.1	190.3	173.7	168.9	162.2	145.6	158.7	156.9
66°	1995.7	789.6	126.3	161.6	179.8	167.2	165.8	162.0	145.0	159.1	156.1
67.5°	1870.4	674.2	114.8	147.6	163.0	157.5	161.0	160.1	143.3	158.7	154.5
70°	1525.4	460.0	98.2	122.9	135.7	138.7	151.6	153.7	138.1	151.6	142.3
72.5°	1065.8	280.2	86.9	95.4	109.7	118.2	138.9	144.8	131.0	132.4	123.5
75°	515.1	148.8	78.8	73.9	85.2	98.8	123.5	132.6	119.9	110.7	107.5
77.5°	160.6	90.9	66.8	59.5	66.8	79.8	103.3	116.2	106.7	92.7	91.5
80°	86.2	66.8	51.4	47.8	52.8	62.6	81.2	97.0	91.7	83.2	74.3
82.5°	56.9	43.3	38.1	37.1	40.3	47.8	60.3	80.4	80.4	71.3	51.8
85°	29.4	26.5	26.1	26.1	28.1	31.8	41.1	62.0	66.0	37.7	31.2
87.5°	14.6	15.2	14.2	14.8	15.8	15.6	19.6	31.2	37.3	22.9	19.0
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)