

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: P200355

Luminaire Tested: **GPC-AF-01-LED-E1-T3R-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200355
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-7050-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4282 lumens
Efficiency: N/A
Efficacy: 125.9 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

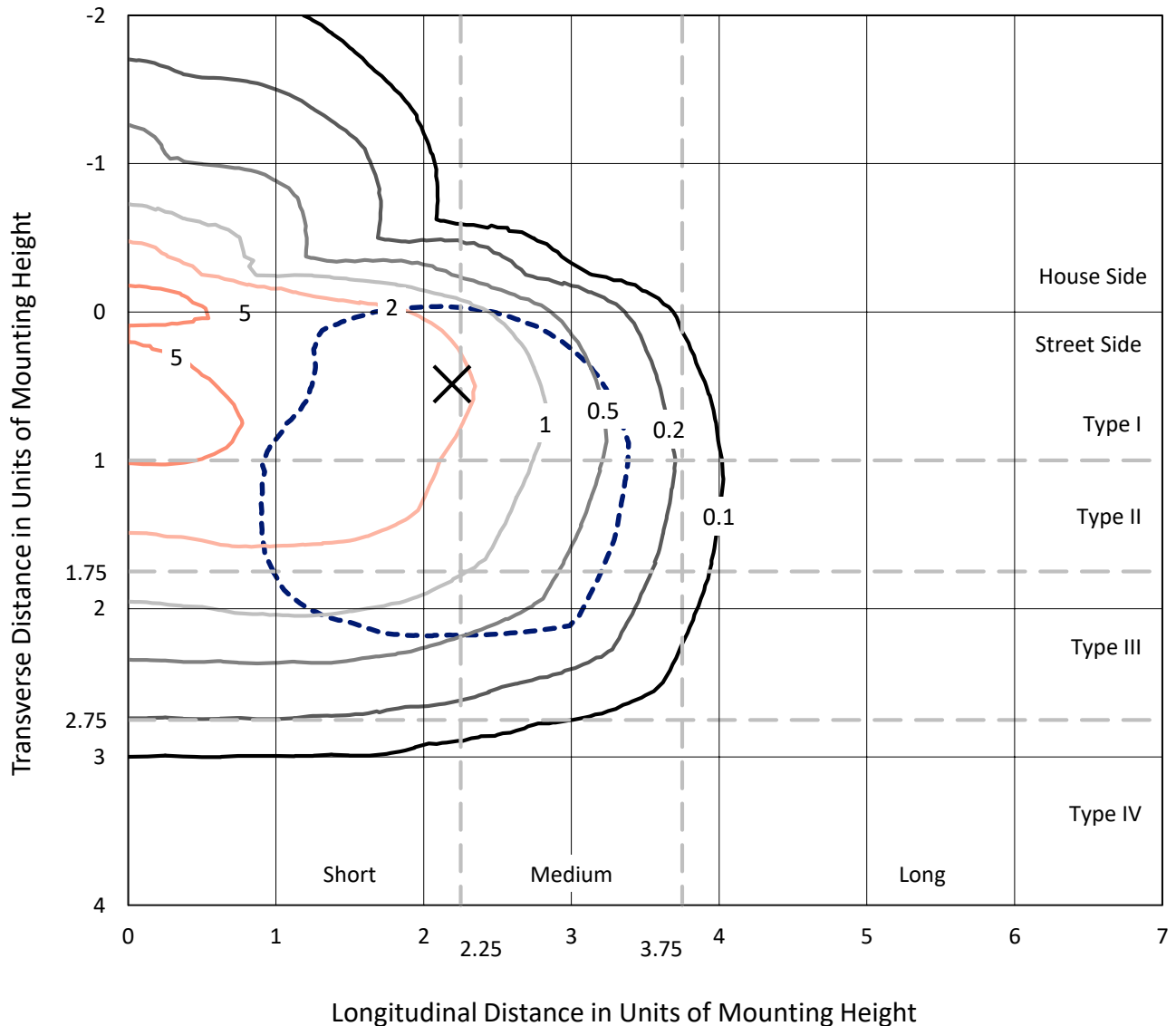
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

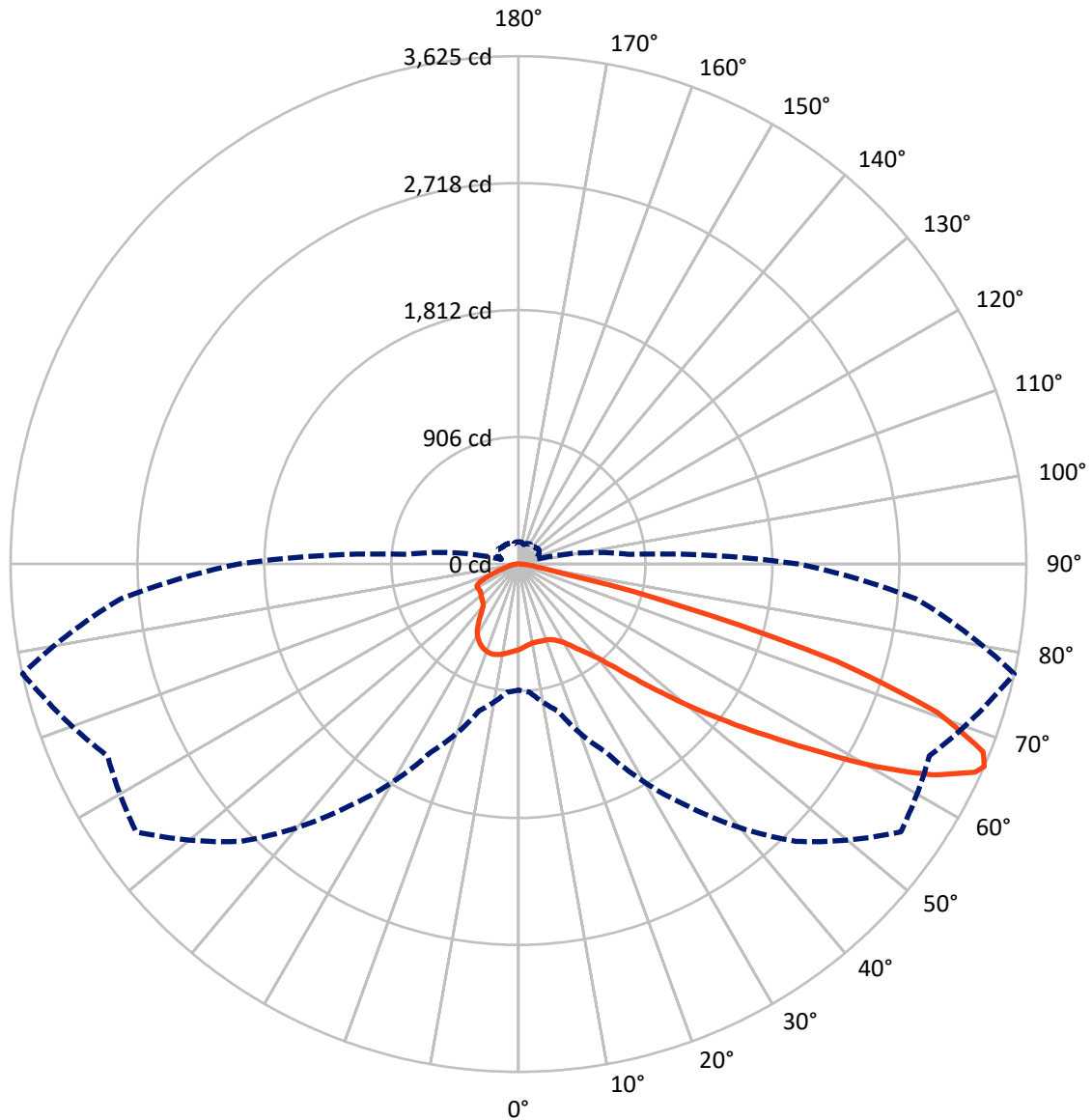
× Max cd
 - - - 1/2 Max cd



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	731.6	0.0	731.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	3550.4	0.0	3550.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	4282.0	0.0	4282.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	1.3
10°-20°	153.8	3.6
20°-30°	262.5	6.1
30°-40°	420.2	9.8
40°-50°	649.2	15.2
50°-60°	920.7	21.5
60°-70°	1231.7	28.8
70°-80°	534.9	12.5
80°-90°	54.5	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°	4282.0	100.0
0°-180°	4282.0	100.0



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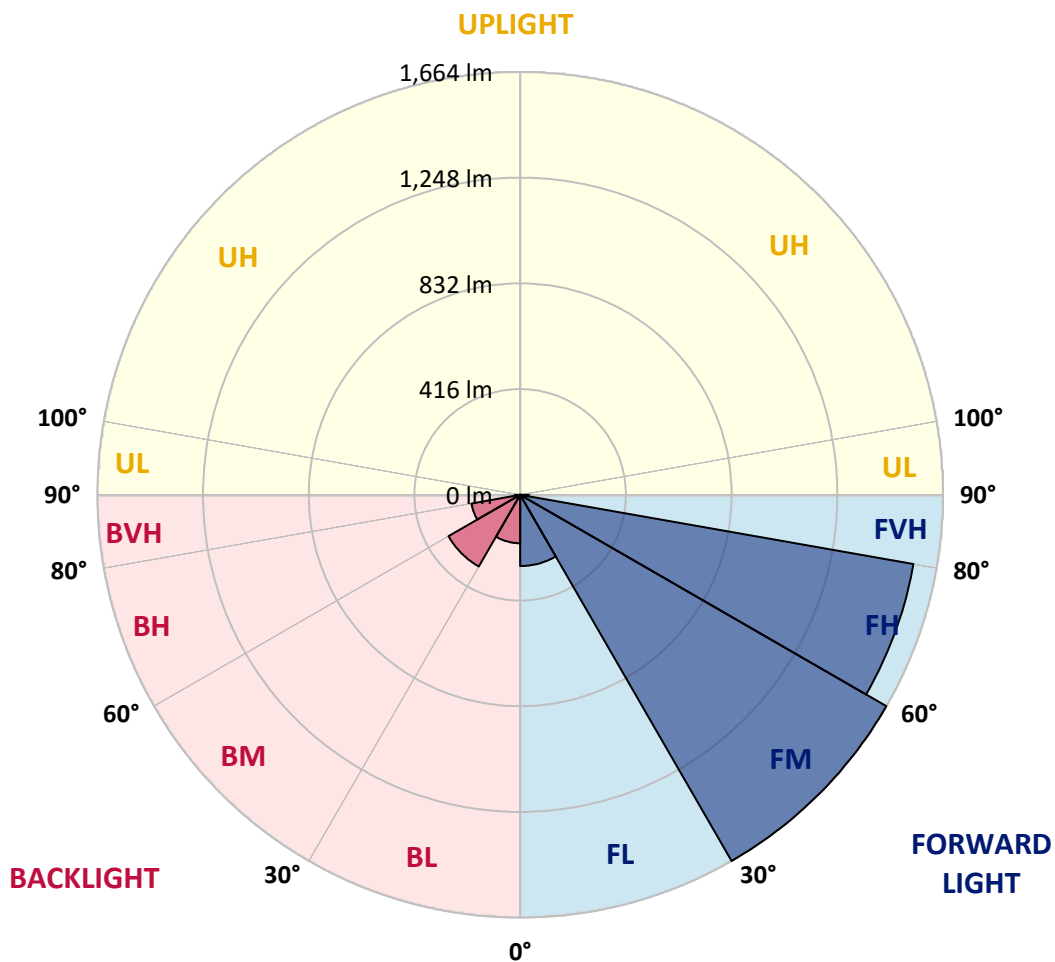
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	280.3	6.5			
FM	(30°-60°)	1664.2	38.9			
FH	(60°-80°)	1571.8	36.7			G1/1800
FVH	(80°-90°)	34.2	0.8			G1/100
BL	(0°-30°)	190.5	4.4	B1/500		
BM	(30°-60°)	325.9	7.6	B1/1000		
BH	(60°-80°)	194.8	4.5	B1/500		G1/500
BVH	(80°-90°)	20.3	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2
2.5°	539.8	543.4	546.5	549.3	555.0	564.3	575.0	583.7	596.2	598.7	605.3
5°	490.2	490.2	492.7	496.9	504.6	518.6	533.1	552.5	579.9	586.3	604.1
7.5°	466.2	466.4	467.8	471.4	478.1	490.8	506.8	529.7	566.7	577.4	607.8
10°	475.1	473.0	470.0	468.2	469.2	476.7	491.8	517.3	558.6	572.4	615.9
12.5°	524.8	521.0	510.5	496.5	483.1	477.7	486.6	511.5	555.2	571.2	626.6
15°	606.2	604.5	584.9	556.0	523.6	496.5	490.4	509.2	555.6	572.6	639.3
17.5°	708.1	705.9	680.0	637.9	585.1	532.3	504.0	511.1	557.0	575.0	651.7
20°	811.1	804.2	776.3	726.1	658.4	581.1	526.4	515.7	558.8	577.6	664.6
22.5°	888.0	882.3	857.2	808.5	730.4	637.5	556.6	523.8	564.7	585.3	680.6
25°	955.6	956.0	931.1	883.9	803.2	697.4	595.4	545.5	579.7	601.1	702.5
27.5°	1039.1	1034.3	1011.0	964.3	875.2	757.9	642.4	575.2	601.9	623.6	731.2
30°	1139.1	1135.6	1108.7	1055.7	955.2	822.8	696.0	609.8	630.6	653.1	768.8
32.5°	1256.6	1255.0	1227.1	1158.9	1047.4	899.3	758.9	655.5	673.5	696.8	822.8
35°	1394.6	1394.8	1361.8	1279.9	1148.4	988.3	830.3	714.4	725.7	750.0	887.2
37.5°	1479.6	1489.9	1477.6	1394.0	1262.7	1087.9	923.0	792.5	785.2	809.7	956.2
40°	1497.8	1510.3	1549.4	1506.9	1390.6	1197.5	1005.1	867.6	858.5	888.4	1045.0
42.5°	1472.3	1489.7	1572.2	1602.2	1526.3	1332.7	1115.6	979.0	967.5	1007.8	1155.5
45°	1457.1	1470.1	1565.6	1651.8	1644.1	1485.5	1256.2	1119.0	1114.8	1167.6	1282.9
47.5°	1430.8	1442.6	1534.4	1663.3	1713.3	1625.5	1425.2	1290.2	1298.5	1367.7	1426.8
50°	1445.0	1449.8	1499.6	1634.0	1733.3	1728.0	1613.9	1488.5	1516.8	1603.2	1589.6
52.5°	1443.0	1455.5	1495.6	1585.8	1735.9	1791.4	1799.9	1709.6	1769.3	1868.5	1770.3
55°	1166.6	1189.7	1448.0	1573.7	1745.2	1853.5	1965.4	1942.7	2054.0	2169.5	1974.3
57.5°	1114.0	1128.6	1271.8	1599.2	1794.6	1972.0	2149.5	2199.2	2385.4	2519.5	2222.7
60°	1103.7	1121.7	1270.0	1630.3	1894.8	2165.3	2422.4	2509.8	2788.6	2935.5	2510.8
62.5°	1071.5	1090.9	1258.0	1626.3	2037.0	2432.5	2771.8	2840.0	3171.0	3313.8	2751.8
65°	969.5	987.7	1160.7	1560.9	2132.9	2717.8	3185.4	3142.7	3472.9	3580.3	2872.0
66°	899.7	917.5	1084.0	1484.0	2110.6	2798.7	3331.9	3236.4	3540.4	3624.6	2848.5
67.5°	772.1	786.0	935.1	1311.9	1992.3	2821.4	3455.1	3306.8	3547.5	3577.3	2714.4
70°	487.8	491.8	607.8	905.6	1508.1	2446.9	3267.5	3132.0	3255.0	3174.4	2275.5
72.5°	211.6	210.2	291.7	460.7	853.8	1641.8	2643.1	2584.3	2553.3	2369.6	1592.9
75°	117.8	119.4	151.5	213.9	347.0	806.5	1729.1	1654.6	1397.0	1192.1	722.3
77.5°	94.5	96.7	125.6	151.7	155.8	281.2	809.1	658.4	396.4	318.1	200.7
80°	74.7	78.7	109.7	118.2	105.0	115.9	261.4	209.0	156.8	143.9	104.0
82.5°	59.1	61.9	94.1	89.4	73.4	78.1	125.2	122.0	102.0	92.9	60.1
85°	42.5	47.7	77.3	67.4	48.2	52.6	83.2	79.7	58.5	47.7	26.5
87.5°	17.4	22.7	54.6	44.7	26.9	24.5	41.5	39.0	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°	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2	610.2
2.5°	609.6	614.5	620.7	624.6	626.6	628.0	630.2	630.0	630.6	630.8	631.7
5°	613.6	621.7	630.8	633.3	633.3	631.0	628.8	625.2	623.8	623.4	623.8
7.5°	624.2	633.1	641.0	638.1	632.1	623.2	611.6	601.5	596.0	594.2	593.8
10°	637.5	648.2	651.5	640.8	623.0	601.5	578.6	562.1	552.5	549.9	549.1
12.5°	653.7	663.8	659.4	636.7	603.7	569.1	537.6	511.1	491.2	485.0	484.6
15°	671.5	679.4	663.8	624.2	575.0	524.0	467.8	422.0	397.4	389.5	388.9
17.5°	688.1	692.1	661.2	602.3	532.7	450.2	375.5	340.3	331.8	333.8	334.2
20°	702.3	702.3	652.3	571.0	466.2	352.9	305.7	305.1	311.2	317.2	318.5
22.5°	717.8	708.5	636.7	526.6	371.9	288.7	281.8	287.5	294.4	301.1	302.1
25°	737.1	713.6	615.1	459.5	292.4	262.2	264.8	269.5	272.9	277.2	277.8
27.5°	758.5	720.1	586.5	367.0	253.7	245.6	247.6	249.3	248.9	250.5	250.9
30°	784.2	727.6	547.5	286.9	237.7	231.5	227.8	226.4	226.4	229.0	230.0
32.5°	818.6	738.7	491.4	245.8	230.0	221.3	209.6	204.3	206.4	215.3	217.3
35°	856.4	750.6	415.6	231.9	228.4	216.7	198.5	188.8	189.0	197.3	199.9
37.5°	897.7	765.8	332.4	229.2	232.1	216.9	192.6	179.3	173.8	173.8	174.8
40°	950.5	781.4	269.1	231.1	239.8	219.3	189.6	171.8	156.4	156.8	157.6
42.5°	1019.3	794.7	235.1	234.9	249.1	222.6	189.4	161.9	148.5	157.6	165.9
45°	1095.8	801.4	220.1	238.3	256.5	224.6	186.1	160.2	149.5	176.6	192.4
47.5°	1183.8	797.6	211.8	239.6	258.4	224.6	182.5	164.1	156.6	204.5	223.0
50°	1280.3	786.4	203.7	237.1	257.8	224.2	185.9	167.9	159.2	209.4	222.2
52.5°	1393.8	777.1	195.2	231.9	253.5	221.9	190.0	166.3	150.9	190.4	199.3
55°	1523.3	779.8	185.7	224.4	246.8	217.7	188.6	159.8	142.2	167.7	173.2
57.5°	1688.8	811.1	174.4	214.9	237.7	210.6	183.5	156.8	139.6	152.1	155.4
60°	1873.5	865.7	160.2	205.4	226.4	199.3	179.7	158.2	140.8	150.9	152.6
62.5°	2009.1	897.5	148.1	191.4	211.0	186.7	174.8	160.0	144.1	155.2	154.8
65°	2045.9	845.3	132.9	171.0	190.2	173.6	168.7	162.1	145.5	158.6	156.8
66°	1994.3	789.1	126.2	161.5	179.7	167.1	165.7	161.9	144.9	159.0	156.0
67.5°	1869.1	673.7	114.7	147.5	162.9	157.4	160.8	160.0	143.2	158.6	154.4
70°	1524.3	459.7	98.1	122.8	135.6	138.6	151.5	153.6	138.0	151.5	142.2
72.5°	1065.0	280.0	86.8	95.3	109.7	118.2	138.8	144.7	130.9	132.3	123.4
75°	514.7	148.7	78.7	73.8	85.2	98.7	123.4	132.5	119.8	110.7	107.4
77.5°	160.4	90.8	66.8	59.5	66.8	79.7	103.2	116.1	106.6	92.7	91.4
80°	86.2	66.8	51.4	47.7	52.8	62.5	81.1	96.9	91.7	83.2	74.3
82.5°	56.9	43.3	38.0	37.0	40.3	47.7	60.3	80.3	80.3	71.2	51.8
85°	29.3	26.5	26.1	26.1	28.1	31.8	41.1	61.9	66.0	37.6	31.2
87.5°	14.6	15.2	14.2	14.8	15.8	15.6	19.6	31.2	37.2	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)