

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: P270029

Luminaire Tested: **GPC-AF-02-LED-E1-SL2-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7027-800-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7222.7 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-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

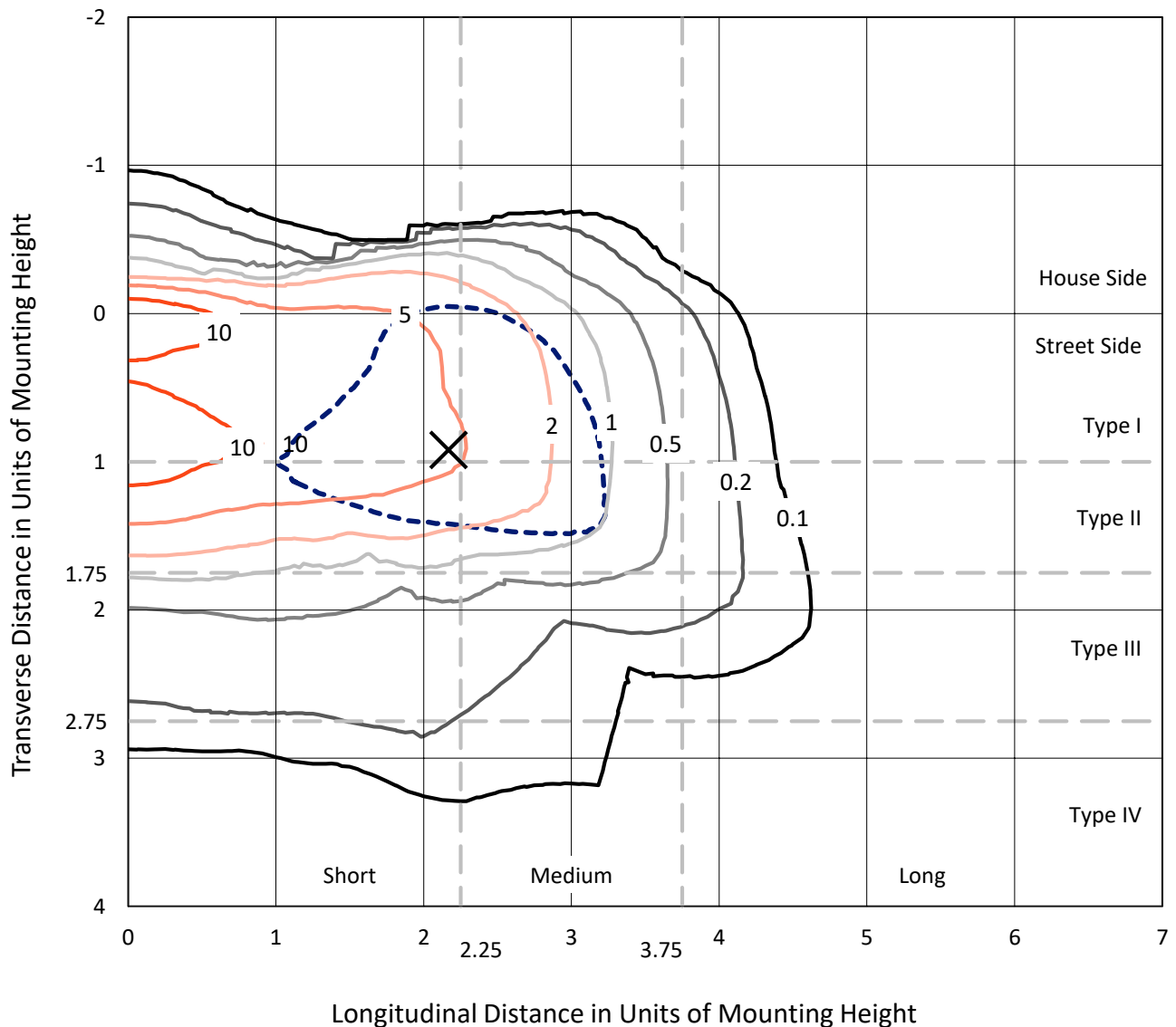


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

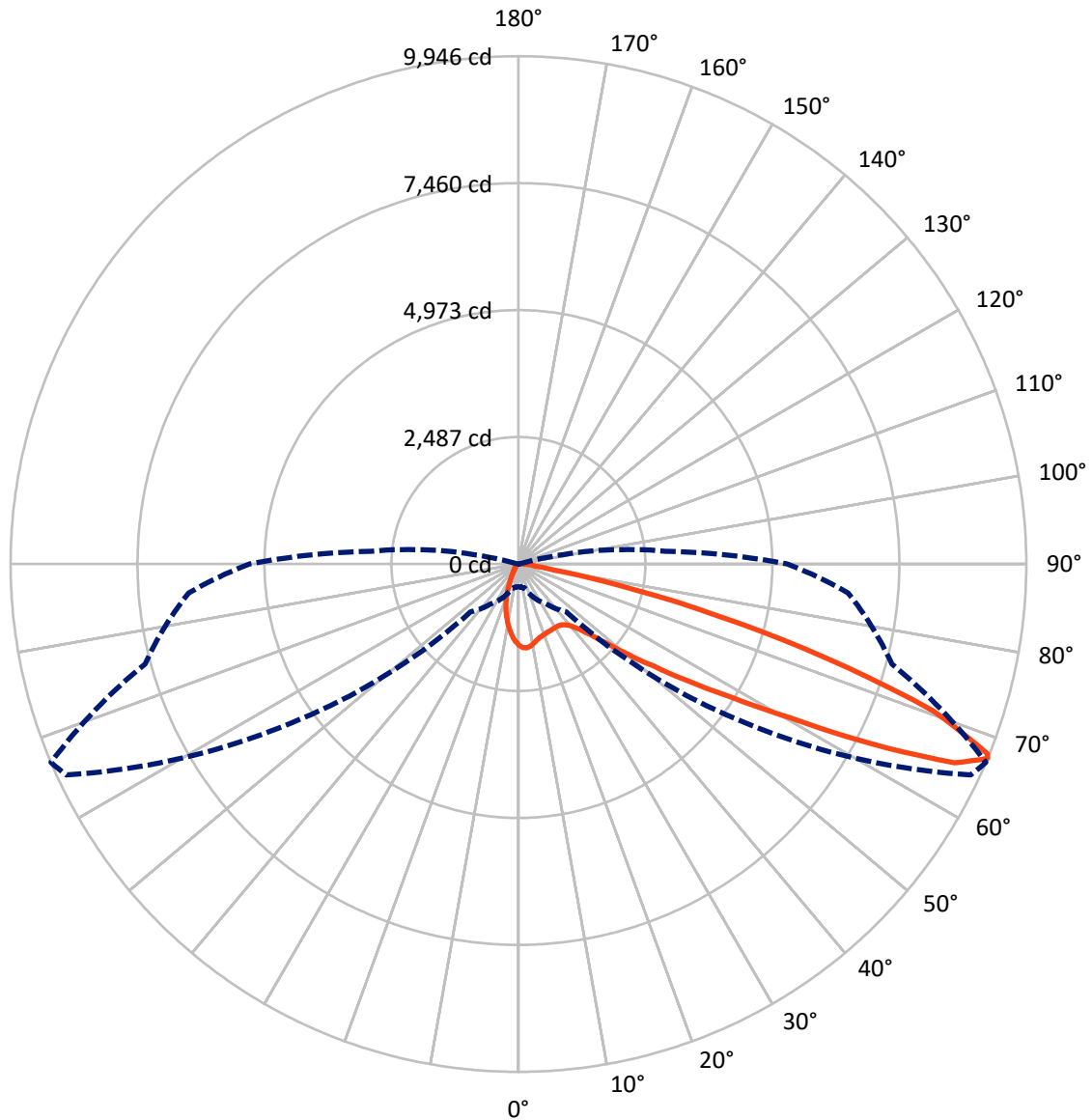


Based on 10 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	749.9	0.0	749.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	6472.8	0.0	6472.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	7222.7	0.0	7222.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	1.8
10°-20°	275.9	3.8
20°-30°	401.1	5.6
30°-40°	625.7	8.7
40°-50°	1108.4	15.3
50°-60°	1753.9	24.3
60°-70°	2008.9	27.8
70°-80°	833.3	11.5
80°-90°	86.1	1.2
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°	7222.7	100.0
0°-180°	7222.7	100.0



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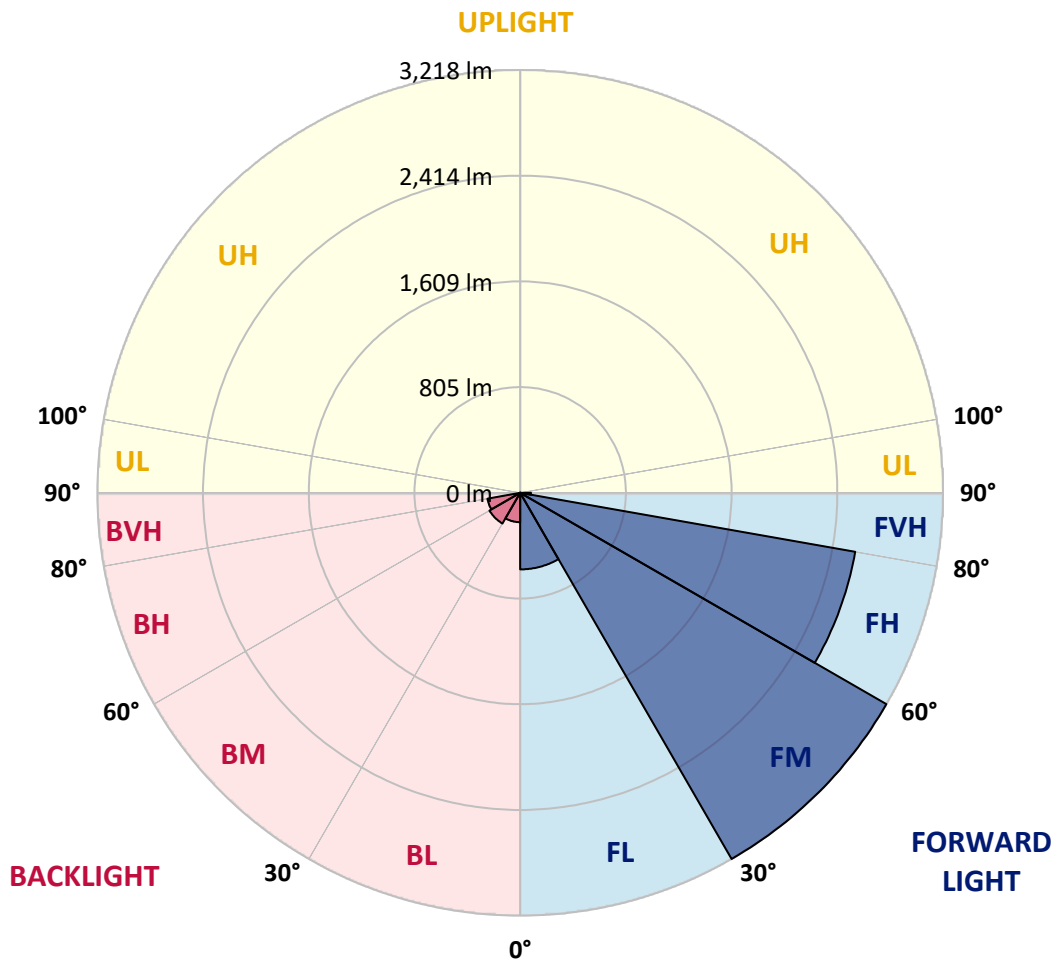
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	582.8	8.1			
FM	(30°-60°)	3218.5	44.6			
FH	(60°-80°)	2589.4	35.9			G2/5000
FVH	(80°-90°)	82.2	1.1			G1/100
BL	(0°-30°)	223.8	3.1	B1/500		
BM	(30°-60°)	269.5	3.7	B1/1000		
BH	(60°-80°)	252.8	3.5	B1/500		G1/500
BVH	(80°-90°)	3.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9
2.5°	1646.9	1650.1	1649.7	1652.3	1658.2	1658.6	1652.7	1641.4	1638.8	1624.0	1598.4
5°	1518.8	1528.5	1534.3	1558.3	1585.2	1617.8	1642.2	1651.1	1649.7	1639.1	1600.5
7.5°	1372.5	1382.2	1389.0	1417.2	1453.0	1508.7	1572.3	1624.5	1629.0	1640.5	1598.8
10°	1275.2	1276.9	1286.2	1313.1	1350.6	1407.6	1483.3	1574.8	1588.7	1630.3	1594.5
12.5°	1195.1	1196.5	1208.7	1237.8	1277.7	1335.1	1414.7	1520.4	1541.9	1617.8	1593.8
15°	1138.3	1143.0	1154.0	1184.2	1226.7	1283.7	1365.3	1480.3	1506.1	1613.0	1601.3
17.5°	1119.4	1124.4	1127.8	1149.7	1188.5	1244.1	1327.9	1454.3	1483.3	1615.6	1616.1
20°	1139.1	1143.0	1135.4	1140.8	1164.8	1214.6	1296.3	1432.0	1466.6	1618.6	1635.1
22.5°	1212.9	1214.6	1193.8	1170.0	1165.7	1193.0	1271.5	1414.2	1451.3	1626.7	1657.4
25°	1339.3	1336.3	1302.6	1250.8	1201.9	1189.3	1256.6	1403.3	1443.8	1635.1	1680.5
27.5°	1491.7	1495.9	1449.7	1374.2	1281.2	1214.6	1254.7	1398.8	1440.3	1640.9	1700.8
30°	1677.1	1683.1	1630.0	1535.2	1401.6	1276.9	1273.9	1397.9	1438.2	1637.2	1702.4
32.5°	1866.3	1873.4	1831.7	1734.0	1562.5	1381.5	1317.8	1407.0	1442.5	1624.0	1692.8
35°	2064.2	2074.4	2046.6	1962.7	1780.8	1532.1	1394.9	1435.3	1462.4	1622.8	1683.1
37.5°	2337.7	2347.0	2294.7	2205.9	2044.9	1734.4	1518.8	1488.4	1509.1	1643.0	1685.6
40°	2745.8	2744.7	2609.8	2473.8	2335.1	1991.5	1692.8	1584.4	1595.0	1704.1	1716.8
42.5°	3190.8	3188.8	2989.4	2782.6	2657.5	2307.7	1921.5	1750.4	1743.3	1816.6	1797.6
45°	3533.8	3533.4	3370.7	3137.7	3045.4	2670.9	2217.2	1981.3	1970.3	1999.4	1946.7
47.5°	3679.9	3682.4	3600.8	3436.8	3475.6	3162.2	2590.1	2315.8	2299.4	2287.5	2207.6
50°	3566.2	3571.2	3577.9	3546.0	3791.1	3822.3	3090.1	2787.3	2779.3	2726.5	2601.4
52.5°	3194.6	3220.3	3299.6	3401.1	3900.7	4456.0	3874.1	3372.7	3329.8	3273.9	3136.1
55°	2568.6	2596.8	2747.1	2993.6	3737.7	4872.1	4972.8	4127.7	4056.1	3888.9	3690.1
57.5°	1700.0	1743.7	1961.9	2275.3	3264.1	4939.2	6068.9	5175.4	4926.0	4468.1	4244.0
60°	936.6	978.7	1215.3	1499.4	2357.5	4608.0	6806.3	6539.7	6099.0	5115.7	4916.9
62.5°	576.7	599.4	774.2	1038.5	1413.8	3637.0	6958.8	8253.7	7743.6	5949.4	5729.5
65°	459.3	468.8	554.4	848.9	1013.6	2163.3	6466.3	9560.7	9390.4	6958.8	6457.0
67°	445.6	449.5	489.9	728.9	955.4	1326.2	5417.3	9773.4	9946.2	7569.7	6479.7
67.5°	448.7	452.8	491.3	695.6	953.8	1218.8	5055.8	9689.6	9907.8	7618.0	6379.1
70°	432.7	445.6	562.3	695.1	907.0	1012.7	3027.7	8395.4	8622.4	7078.5	5412.6
72.5°	153.3	154.1	243.1	562.3	986.2	1023.7	1520.4	6154.6	6322.6	5414.8	3902.3
75°	91.0	77.6	80.8	160.1	942.4	994.2	877.1	3932.7	3995.4	3102.7	1976.2
77.5°	62.8	54.7	56.5	70.7	359.0	980.3	696.8	2050.8	1983.8	1088.1	420.9
80°	35.8	31.6	33.6	62.0	130.7	914.7	657.2	831.7	709.0	184.5	116.3
82.5°	19.0	16.0	19.4	50.9	91.0	570.1	658.5	401.9	318.4	62.3	79.2
85°	6.7	5.5	9.3	34.9	60.6	174.8	610.5	337.9	265.4	30.4	60.2
87.5°	1.3	1.3	3.9	14.4	24.4	53.4	361.1	200.5	134.3	18.1	41.3
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°	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9
2.5°	1587.8	1569.7	1545.3	1515.4	1480.0	1448.7	1425.6	1401.6	1396.5	1388.2	1386.9
5°	1577.2	1546.2	1485.4	1416.0	1341.8	1274.9	1220.4	1172.0	1150.5	1132.0	1129.9
7.5°	1561.8	1514.9	1411.7	1299.7	1183.7	1078.4	989.2	926.1	867.9	840.0	835.9
10°	1543.6	1476.6	1328.8	1173.2	1013.2	864.4	731.8	620.5	553.1	513.1	508.1
12.5°	1526.7	1439.2	1244.1	1042.3	829.6	630.7	460.0	353.9	283.1	254.5	251.0
15°	1518.8	1408.8	1164.8	908.2	637.3	401.5	251.5	194.7	171.4	164.7	164.3
17.5°	1517.9	1383.1	1087.4	769.7	446.5	233.4	163.9	149.6	144.9	143.2	143.2
20°	1517.4	1358.6	1009.9	625.9	283.5	155.4	136.5	133.0	129.7	127.6	127.6
22.5°	1522.1	1336.8	928.9	479.4	178.7	125.9	120.1	116.7	112.5	109.6	109.1
25°	1526.7	1319.9	846.4	341.3	129.4	109.6	103.7	99.1	93.2	89.3	88.9
27.5°	1527.6	1298.8	757.9	228.3	108.2	95.6	88.0	80.8	74.1	70.3	70.0
30°	1514.9	1263.5	659.7	154.1	95.6	83.1	72.9	65.2	59.0	56.1	56.1
32.5°	1490.1	1219.5	551.9	116.3	85.1	71.1	60.2	53.1	48.9	47.6	47.3
35°	1467.7	1172.5	441.1	98.5	76.3	60.2	49.2	44.6	42.1	41.7	41.3
37.5°	1454.6	1134.5	337.0	89.3	67.8	50.6	41.7	38.4	37.1	36.2	36.7
40°	1464.7	1102.8	249.0	81.7	59.4	42.1	35.5	33.6	32.5	32.0	32.0
42.5°	1509.1	1097.5	185.0	75.0	51.5	34.9	30.7	29.5	28.7	28.2	28.7
45°	1625.4	1131.1	143.6	68.7	43.4	29.5	26.1	25.7	25.3	25.3	25.3
47.5°	1800.2	1200.7	119.7	61.5	36.2	25.3	22.7	22.3	21.9	22.3	22.3
50°	2096.4	1327.9	107.0	54.3	30.0	21.5	19.4	19.4	19.4	19.4	19.9
52.5°	2546.7	1578.1	98.5	47.3	24.4	18.1	16.3	16.3	16.9	16.9	17.2
55°	3048.4	1910.1	91.0	40.1	20.7	15.2	13.5	14.0	14.4	14.7	14.7
57.5°	3592.7	2277.9	84.7	32.9	17.6	12.1	11.4	11.8	12.1	13.0	13.0
60°	4249.5	2676.1	75.4	25.7	14.7	9.7	8.9	9.7	11.0	11.8	12.1
62.5°	4970.7	3061.1	63.6	20.2	12.1	7.5	7.1	8.9	10.5	11.4	11.8
65°	5463.6	3181.9	48.9	16.3	9.3	5.5	5.8	8.1	10.2	11.4	11.4
67°	5264.0	2884.9	40.1	14.0	7.5	4.2	5.5	8.1	10.2	11.0	11.4
67.5°	5125.4	2768.7	38.4	13.5	7.1	4.2	5.5	8.1	10.2	11.4	11.4
70°	4170.3	2079.8	32.0	10.2	5.8	3.9	4.6	7.5	9.7	11.0	11.0
72.5°	2897.7	1282.4	28.7	7.1	5.1	3.4	4.2	7.1	9.3	10.5	11.0
75°	1377.6	464.2	24.4	5.5	4.6	3.0	3.9	7.1	9.3	10.5	10.5
77.5°	281.0	107.8	19.9	4.6	3.9	3.0	3.4	6.7	8.9	10.2	10.2
80°	92.3	41.7	14.7	4.2	3.9	3.0	3.4	6.3	8.9	9.7	10.2
82.5°	66.6	21.1	9.7	4.2	3.9	3.0	3.0	6.3	8.4	9.7	9.7
85°	50.9	14.7	6.3	4.2	3.9	3.0	3.0	5.8	8.1	9.3	9.3
87.5°	33.6	5.8	5.1	4.2	3.9	3.0	3.0	5.8	7.5	8.9	9.3
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)