

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: P200038

Luminaire Tested: **GPC-AF-02-LED-E1-T3R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200038
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-7030-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 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: 9925.1 lumens
Efficiency: N/A
Efficacy: 115.4 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

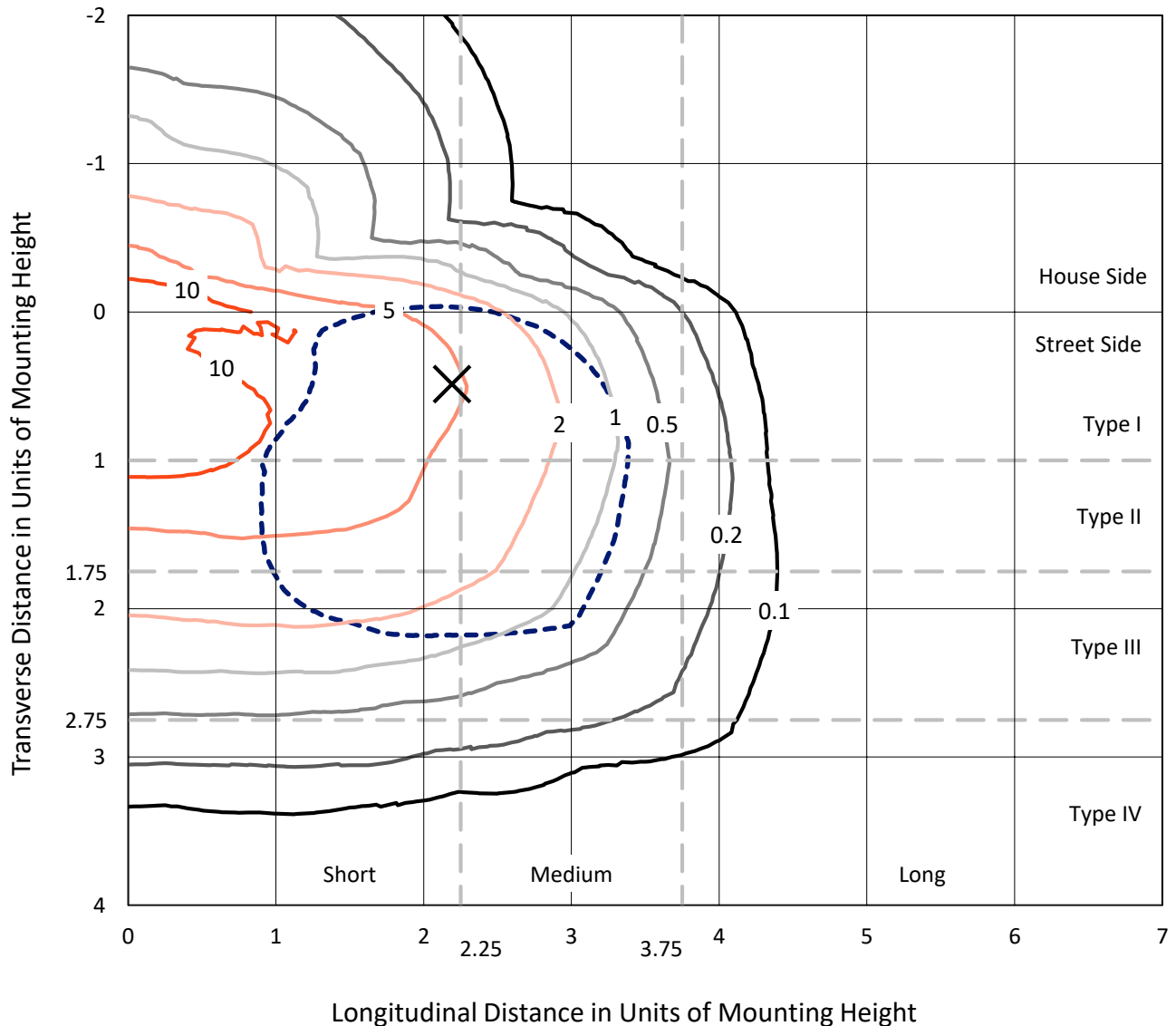
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

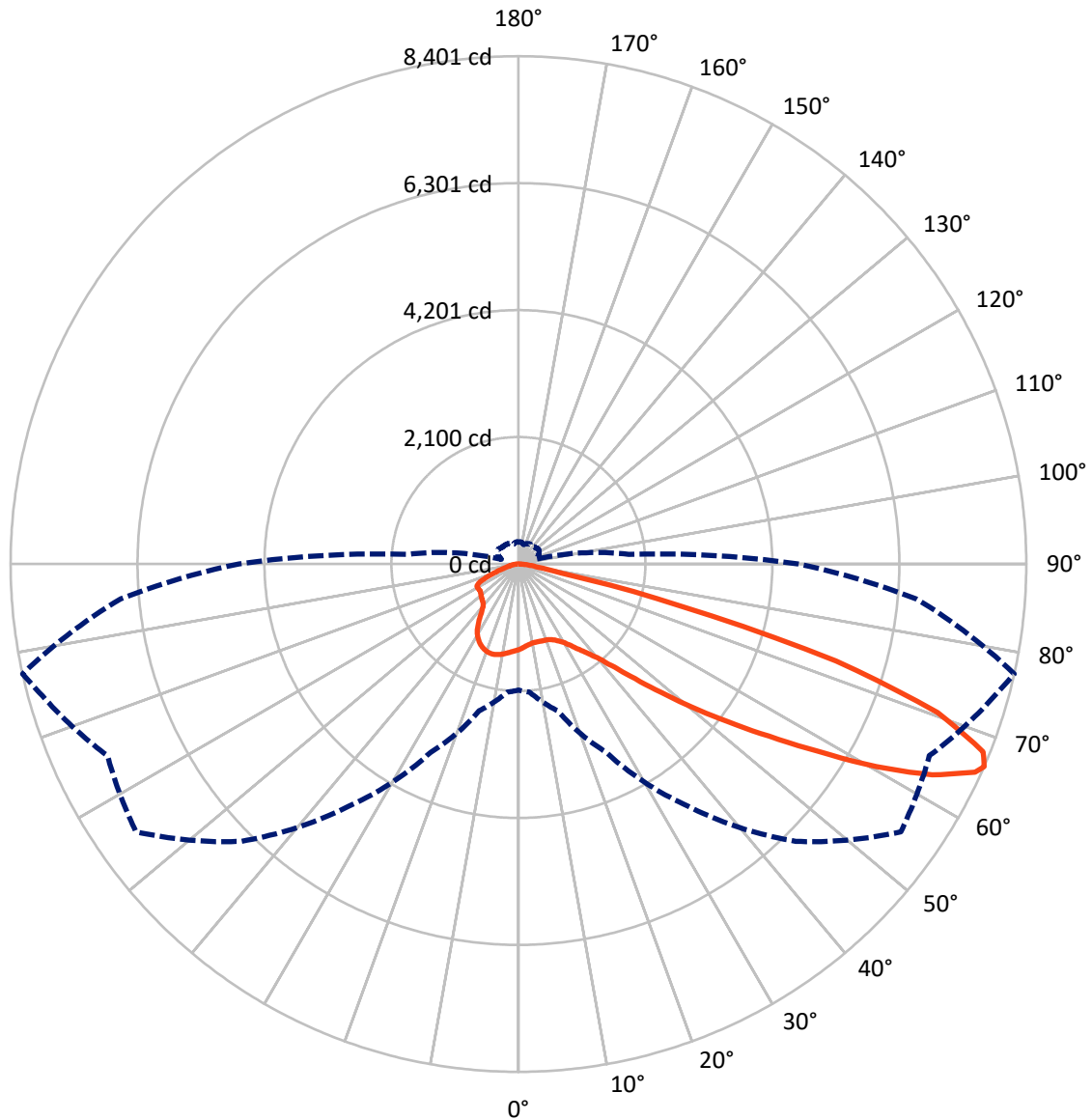
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.4 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	1695.6	0.0	1695.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	8229.5	0.0	8229.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	9925.1	0.0	9925.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	1.3
10°-20°	356.5	3.6
20°-30°	608.4	6.1
30°-40°	973.9	9.8
40°-50°	1504.7	15.2
50°-60°	2134.1	21.5
60°-70°	2854.9	28.8
70°-80°	1239.8	12.5
80°-90°	126.4	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°	9925.1	100.0
0°-180°	9925.1	100.0



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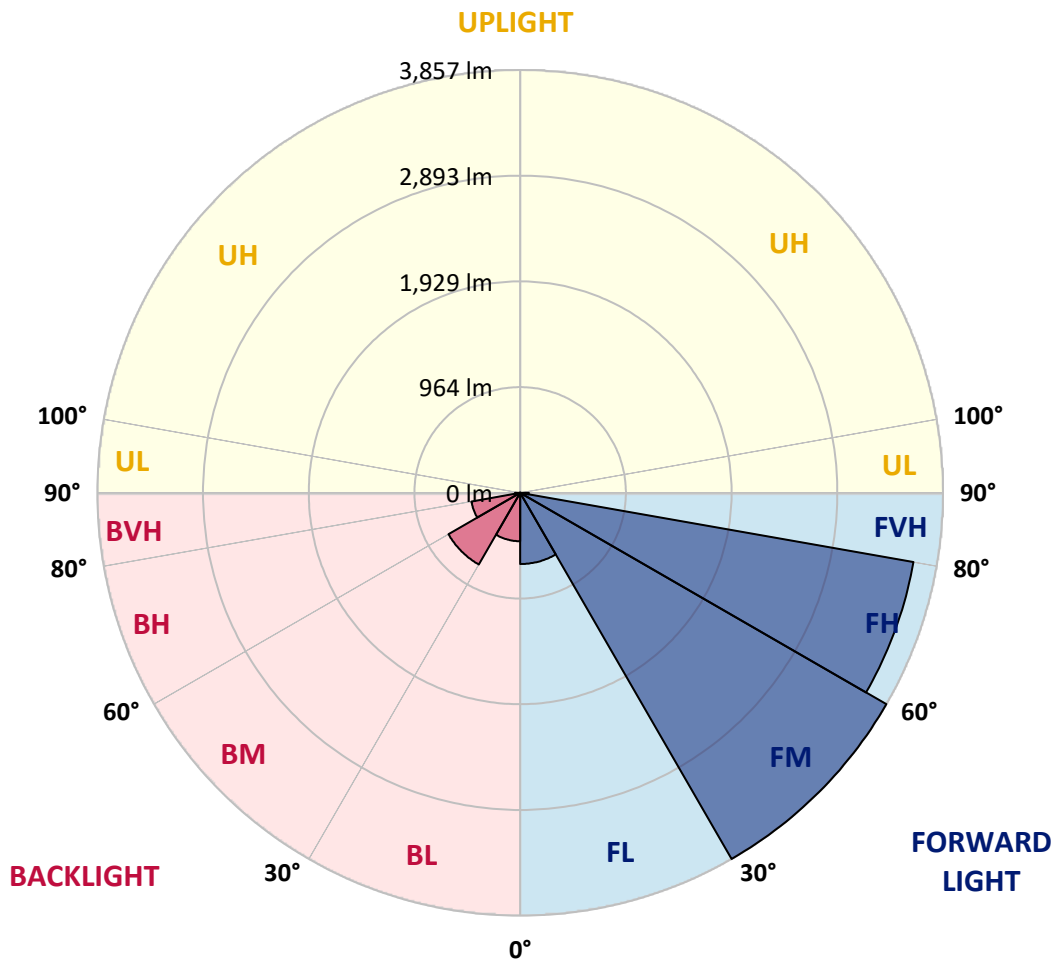
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	649.6	6.5			
FM	(30°-60°)	3857.4	38.9			
FH	(60°-80°)	3643.1	36.7			G2/5000
FVH	(80°-90°)	79.3	0.8			G1/100
BL	(0°-30°)	441.6	4.4	B1/500		
BM	(30°-60°)	755.3	7.6	B1/1000		
BH	(60°-80°)	451.6	4.5	B1/500		G1/500
BVH	(80°-90°)	47.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4
2.5°	1251.1	1259.6	1266.7	1273.2	1286.3	1308.0	1332.8	1352.9	1382.0	1387.6	1403.1
5°	1136.3	1136.3	1141.9	1151.8	1169.6	1202.0	1235.7	1280.7	1344.0	1359.0	1400.2
7.5°	1080.5	1080.9	1084.2	1092.7	1108.1	1137.7	1174.7	1227.7	1313.6	1338.4	1408.8
10°	1101.2	1096.4	1089.5	1085.2	1087.5	1104.8	1140.0	1199.1	1294.8	1326.6	1427.5
12.5°	1216.5	1207.6	1183.2	1150.8	1119.9	1107.3	1127.9	1185.6	1286.8	1323.9	1452.4
15°	1405.0	1401.2	1355.8	1288.7	1213.7	1150.8	1136.8	1180.3	1287.7	1327.2	1481.9
17.5°	1641.4	1636.1	1576.2	1478.6	1356.2	1233.9	1168.2	1184.6	1291.0	1332.8	1510.5
20°	1880.1	1864.1	1799.4	1683.1	1526.1	1346.8	1220.2	1195.4	1295.3	1338.9	1540.5
22.5°	2058.2	2045.2	1987.0	1873.9	1693.0	1477.7	1290.2	1214.1	1308.8	1356.7	1577.6
25°	2214.9	2215.8	2158.1	2048.8	1861.8	1616.5	1380.2	1264.3	1343.6	1393.3	1628.2
27.5°	2408.5	2397.2	2343.4	2235.0	2028.7	1756.7	1488.9	1333.3	1395.1	1445.3	1694.8
30°	2640.2	2632.3	2569.9	2447.0	2213.9	1907.2	1613.2	1413.5	1461.8	1513.8	1782.0
32.5°	2912.8	2908.9	2844.2	2686.1	2427.7	2084.5	1759.1	1519.5	1561.2	1615.1	1907.2
35°	3232.6	3233.0	3156.5	2966.6	2661.8	2290.8	1924.6	1656.0	1682.1	1738.5	2056.4
37.5°	3429.5	3453.3	3424.8	3231.2	2926.7	2521.6	2139.4	1836.8	1820.0	1876.7	2216.4
40°	3471.7	3500.7	3591.3	3492.8	3223.1	2775.7	2329.7	2010.9	1989.8	2059.2	2422.2
42.5°	3412.6	3452.9	3644.3	3713.7	3537.9	3089.0	2585.8	2269.4	2242.5	2335.9	2678.2
45°	3377.4	3407.5	3628.8	3828.6	3810.8	3443.1	2911.8	2593.9	2584.0	2706.4	2973.7
47.5°	3316.4	3343.7	3556.6	3855.3	3971.1	3767.6	3303.4	2990.5	3009.8	3170.1	3307.1
50°	3349.4	3360.6	3475.9	3787.3	4017.6	4005.3	3740.9	3450.1	3515.8	3716.0	3684.6
52.5°	3344.7	3373.7	3466.6	3675.7	4023.7	4152.2	4171.8	3962.8	4101.0	4330.8	4103.3
55°	2704.0	2757.4	3356.3	3647.5	4045.3	4296.1	4555.4	4502.9	4760.9	5028.6	4576.1
57.5°	2582.2	2615.8	2947.9	3706.6	4159.6	4571.0	4982.2	5097.6	5528.9	5839.9	5152.0
60°	2558.2	2600.0	2943.7	3778.8	4391.7	5018.9	5614.9	5817.4	6463.7	6804.1	5819.8
62.5°	2483.6	2528.6	2916.0	3769.5	4721.4	5638.4	6424.7	6582.8	7350.0	7681.0	6378.3
65°	2247.3	2289.4	2690.4	3618.0	4943.8	6299.5	7383.3	7284.4	8049.6	8298.7	6656.8
66°	2085.4	2126.7	2512.6	3439.8	4892.2	6487.0	7722.8	7501.4	8206.3	8401.4	6602.4
67.5°	1789.5	1821.9	2167.4	3040.6	4617.9	6539.6	8008.3	7664.6	8222.8	8291.6	6291.5
70°	1130.7	1140.0	1408.8	2099.1	3495.6	5671.5	7573.7	7259.5	7544.6	7357.9	5274.4
72.5°	490.6	487.3	676.2	1067.8	1979.0	3805.6	6126.5	5990.0	5918.2	5492.5	3692.1
75°	272.9	276.7	351.3	495.7	804.2	1869.3	4007.7	3835.1	3238.1	2763.0	1674.2
77.5°	218.9	224.2	291.1	351.7	361.1	651.8	1875.3	1526.1	918.7	737.2	465.2
80°	173.0	182.5	254.1	273.9	243.4	268.7	605.9	484.4	363.4	333.5	241.0
82.5°	136.9	143.4	218.1	207.3	170.2	181.1	290.3	282.8	236.3	215.2	139.3
85°	98.5	110.7	179.1	156.1	111.7	122.0	192.8	184.7	135.5	110.7	61.4
87.5°	40.3	52.6	126.6	103.7	62.4	56.7	96.1	90.4	64.3	46.9	30.5
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°	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4
2.5°	1412.9	1424.2	1438.7	1447.6	1452.4	1455.7	1460.8	1460.4	1461.8	1462.2	1464.1
5°	1422.3	1441.1	1462.2	1467.8	1467.8	1462.7	1457.5	1449.1	1445.8	1444.9	1445.8
7.5°	1446.7	1467.4	1485.7	1479.1	1465.0	1444.4	1417.6	1394.2	1381.6	1377.3	1376.3
10°	1477.7	1502.6	1510.1	1485.2	1444.0	1394.2	1341.2	1302.8	1280.7	1274.6	1272.8
12.5°	1515.2	1538.7	1528.3	1475.8	1399.4	1319.2	1246.0	1184.6	1138.6	1124.1	1123.1
15°	1556.5	1574.8	1538.7	1446.7	1332.8	1214.6	1084.2	978.2	921.0	902.7	901.4
17.5°	1594.9	1604.3	1532.6	1396.2	1234.7	1043.4	870.4	788.8	769.0	773.8	774.7
20°	1627.8	1627.8	1511.9	1323.3	1080.5	818.0	708.5	707.2	721.2	735.4	738.1
22.5°	1663.9	1642.2	1475.8	1220.7	861.9	669.2	653.3	666.4	682.4	697.8	700.2
25°	1708.4	1653.9	1425.7	1065.0	677.6	607.8	613.8	624.6	632.6	642.5	643.9
27.5°	1758.1	1669.1	1359.5	850.7	588.1	569.4	574.0	577.8	576.8	580.6	581.5
30°	1817.6	1686.4	1269.0	665.0	551.0	536.5	528.0	524.8	524.8	530.9	533.1
32.5°	1897.4	1712.2	1139.1	569.8	533.1	513.1	485.8	473.6	478.3	499.0	503.6
35°	1985.1	1739.9	963.2	537.4	529.5	502.3	460.1	437.6	438.0	457.2	463.4
37.5°	2080.8	1775.0	770.5	531.3	537.9	502.7	446.5	415.5	402.8	402.8	405.2
40°	2203.2	1811.1	623.8	535.6	555.7	508.4	439.4	398.1	362.5	363.4	365.4
42.5°	2362.6	1842.1	544.8	544.4	577.3	515.8	438.9	375.2	344.1	365.4	384.6
45°	2539.8	1857.5	510.2	552.5	594.6	520.5	431.5	371.4	346.6	409.4	446.0
47.5°	2743.8	1848.6	491.0	555.2	598.8	520.5	423.1	380.3	363.0	474.0	516.8
50°	2967.6	1822.9	472.2	549.6	597.4	519.6	430.9	389.2	369.1	485.3	514.9
52.5°	3230.7	1801.2	452.6	537.4	587.6	514.4	440.4	385.4	349.8	441.3	461.9
55°	3530.8	1807.3	430.5	520.1	572.1	504.6	437.0	370.5	329.6	388.8	401.4
57.5°	3914.4	1880.1	404.3	498.0	551.0	488.2	425.3	363.4	323.6	352.7	360.1
60°	4342.5	2006.6	371.4	476.1	524.8	461.9	416.4	366.7	326.3	349.8	353.6
62.5°	4656.7	2080.3	343.3	443.6	489.2	432.8	405.2	370.9	333.9	359.7	358.7
65°	4742.1	1959.3	308.1	396.3	440.9	402.4	391.1	375.7	337.2	367.6	363.4
66°	4622.5	1828.9	292.6	374.2	416.4	387.4	384.0	375.2	335.8	368.6	361.5
67.5°	4332.2	1561.7	265.9	341.9	377.5	364.8	372.8	370.9	332.0	367.6	357.9
70°	3533.1	1065.5	227.5	284.6	314.2	321.2	351.3	355.9	319.8	351.3	329.6
72.5°	2468.6	649.0	201.1	220.9	254.1	273.9	321.7	335.3	303.4	306.7	286.0
75°	1193.0	344.7	182.5	171.2	197.4	228.9	286.0	307.1	277.6	256.5	249.0
77.5°	371.9	210.6	154.7	137.8	154.7	184.7	239.2	269.3	247.2	214.8	212.0
80°	199.7	154.7	119.1	110.7	122.4	144.9	188.0	224.6	212.4	192.8	172.1
82.5°	131.7	100.4	88.2	85.8	93.3	110.7	139.8	186.2	186.2	165.1	120.0
85°	68.0	61.4	60.5	60.5	65.2	73.6	95.2	143.4	152.9	87.2	72.2
87.5°	33.8	35.2	32.8	34.2	36.6	36.0	45.5	72.2	86.4	53.0	44.0
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)