

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: P200688

Luminaire Tested: **GPC-AF-02-LED-E1-T4FT-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200688  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
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-T4FT-8030  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10198 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

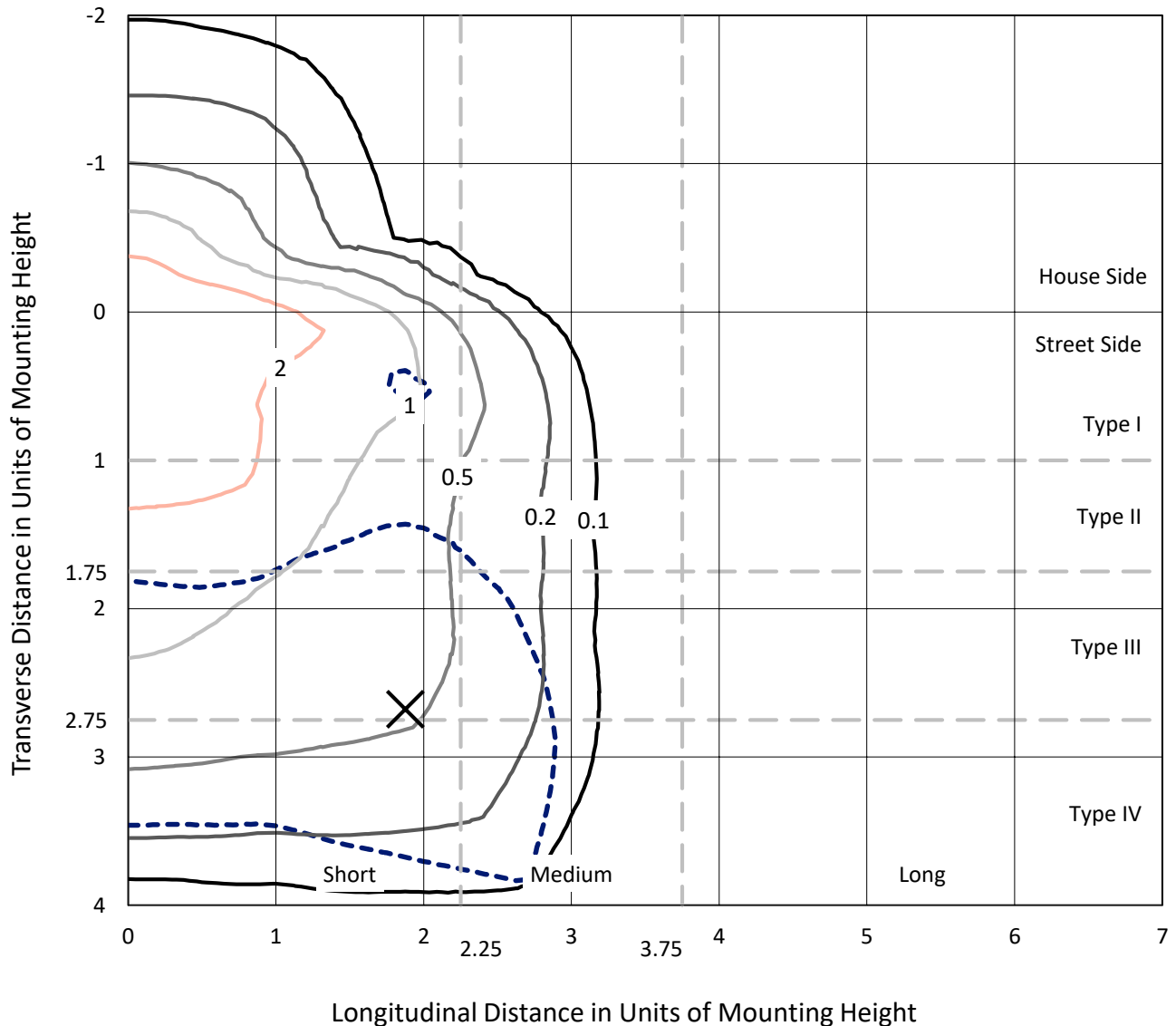
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

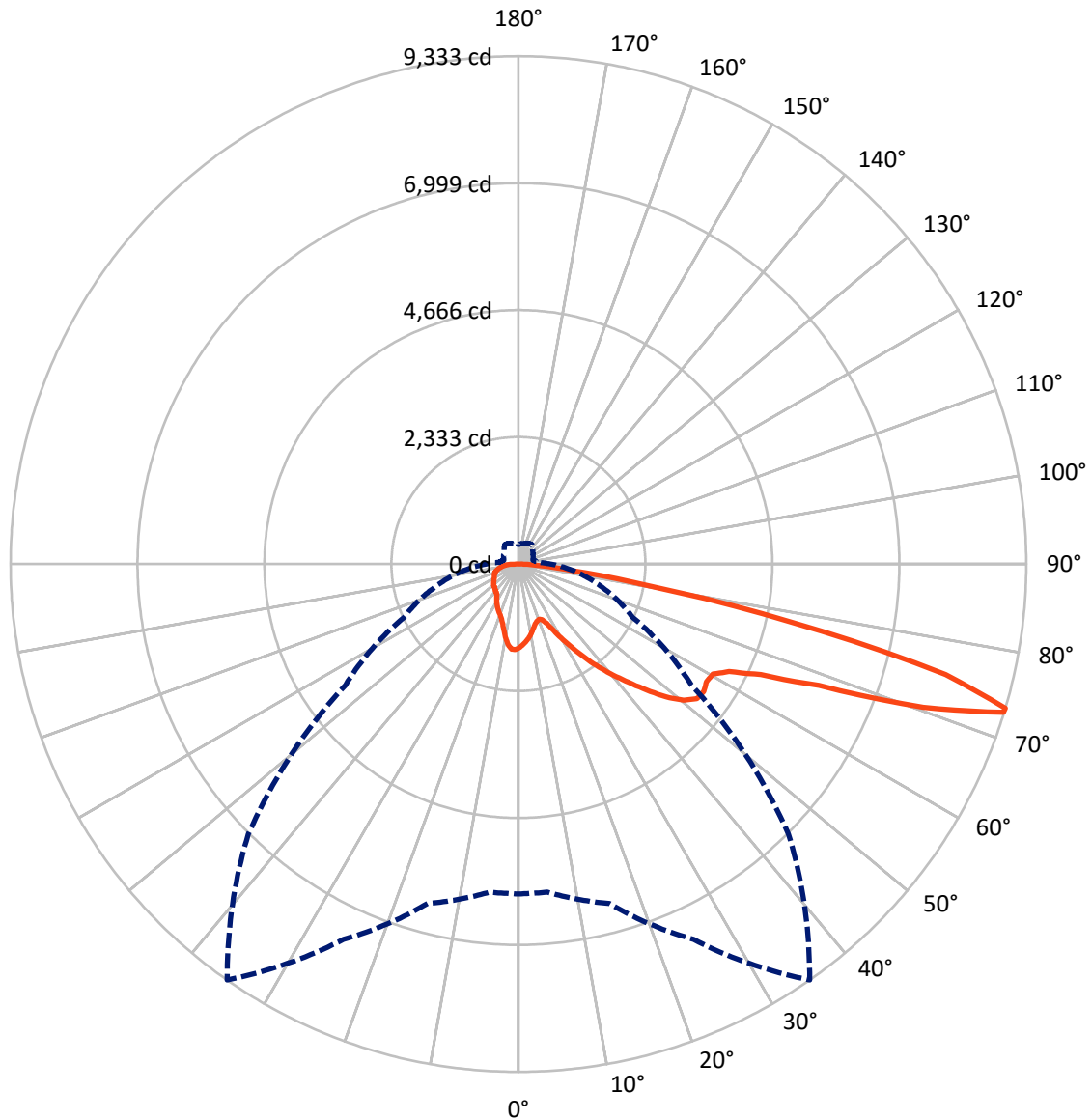
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1945.0	0.0	1945.0
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	8253.0	0.0	8253.0
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	10198.0	0.0	10198.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.3	1.4
10°-20°	347.8	3.4
20°-30°	562.2	5.5
30°-40°	942.8	9.2
40°-50°	1453.2	14.3
50°-60°	1949.7	19.1
60°-70°	2597.4	25.5
70°-80°	1981.0	19.4
80°-90°	224.5	2.2
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°	10198.0	100.0
0°-180°	10198.0	100.0



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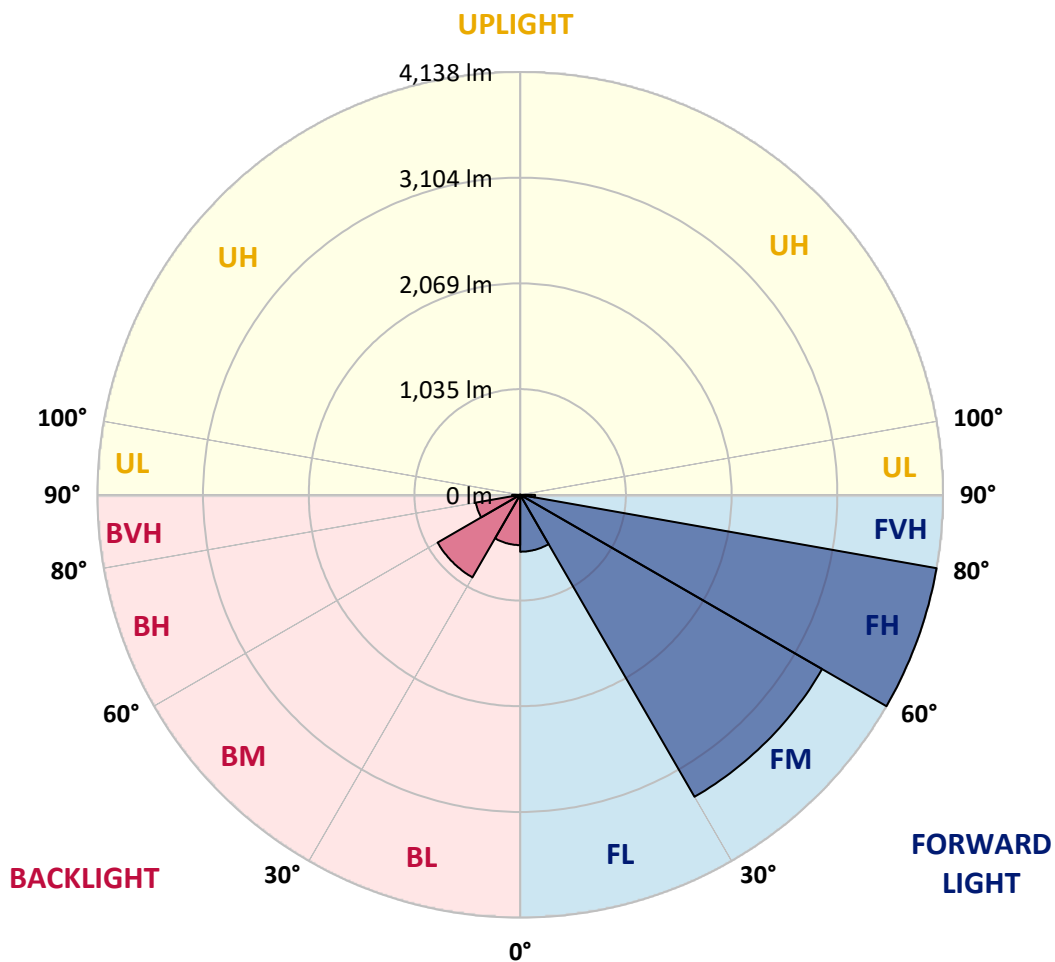
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	557.2	5.5			
FM	(30°-60°)	3412.3	33.5			
FH	(60°-80°)	4138.3	40.6			G2/5000
FVH	(80°-90°)	145.1	1.4			G2/225
BL	(0°-30°)	492.2	4.8	B1/500		
BM	(30°-60°)	933.4	9.2	B1/1000		
BH	(60°-80°)	440.0	4.3	B1/500		G1/500
BVH	(80°-90°)	79.4	0.8			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2
2.5°	1478.5	1481.4	1478.0	1482.4	1489.7	1497.6	1503.0	1510.8	1519.6	1531.8	1534.8
5°	1408.9	1413.3	1413.3	1421.2	1435.4	1448.1	1459.9	1472.6	1491.2	1512.3	1520.6
7.5°	1332.5	1335.0	1339.4	1351.1	1371.7	1389.8	1406.5	1427.0	1452.5	1480.4	1495.1
10°	1240.5	1243.9	1250.7	1267.4	1295.3	1320.3	1344.3	1372.7	1405.0	1439.8	1458.4
12.5°	1175.3	1174.4	1177.3	1189.5	1214.0	1244.4	1279.2	1315.4	1355.1	1395.7	1418.2
15°	1153.3	1147.9	1136.6	1133.7	1146.9	1177.3	1217.4	1262.0	1309.5	1358.5	1386.4
17.5°	1167.0	1157.7	1126.8	1104.3	1102.4	1125.4	1168.0	1217.9	1272.8	1332.5	1367.3
20°	1253.2	1231.2	1155.3	1102.9	1084.7	1096.0	1133.2	1186.1	1250.7	1330.1	1374.6
22.5°	1459.4	1427.0	1265.9	1168.5	1107.3	1093.5	1121.5	1177.8	1253.2	1360.4	1417.3
25°	1759.6	1713.5	1455.9	1332.0	1205.7	1132.7	1139.1	1196.9	1288.0	1431.0	1499.5
27.5°	1996.6	1966.7	1704.2	1562.7	1384.9	1238.5	1196.4	1244.9	1359.0	1546.5	1616.6
30°	2137.6	2119.5	1969.7	1824.2	1613.6	1407.0	1306.1	1335.0	1470.1	1706.7	1764.5
32.5°	2301.2	2290.4	2217.0	2083.3	1860.5	1628.3	1479.9	1469.7	1619.0	1899.1	1925.6
35°	2470.6	2467.2	2424.1	2328.1	2125.4	1920.2	1710.6	1641.1	1781.1	2098.9	2082.3
37.5°	2628.3	2622.5	2597.5	2541.7	2402.6	2233.6	1945.7	1816.9	1955.9	2289.9	2216.0
40°	2918.7	2872.7	2787.0	2744.9	2682.7	2497.6	2132.2	1980.9	2137.1	2472.1	2331.6
42.5°	3272.8	3197.9	3038.2	2980.4	2971.6	2705.7	2259.6	2140.1	2319.8	2652.8	2445.2
45°	3551.5	3480.9	3343.3	3270.4	3302.7	2894.3	2387.4	2310.0	2507.9	2842.3	2562.2
47.5°	3848.7	3738.0	3555.9	3577.9	3648.4	3072.5	2517.7	2492.7	2714.0	3054.4	2707.7
50°	3859.5	3774.8	3694.9	3826.7	3936.4	3236.6	2680.7	2684.2	2966.2	3321.3	2901.1
52.5°	3635.7	3617.6	3744.4	3951.6	4109.7	3366.3	2866.3	2882.0	3289.0	3627.9	3113.6
55°	3557.3	3536.8	3683.2	3908.0	4133.3	3473.6	3067.6	3096.0	3679.3	3951.1	3320.8
57.5°	3748.3	3702.8	3712.6	3887.4	4076.0	3591.1	3287.0	3344.3	4103.4	4233.6	3454.0
60°	4282.1	4184.7	3999.6	3995.1	4106.8	3767.4	3540.7	3610.7	4544.1	4368.8	3402.1
62.5°	5030.9	4933.5	4586.7	4361.0	4344.3	4058.3	3852.2	3870.8	4798.8	4185.7	3085.2
65°	5841.4	5754.2	5366.9	5048.1	4894.3	4540.2	4214.1	3986.8	4715.5	3681.7	2530.9
67.5°	6825.2	6731.7	6398.7	6104.4	5956.5	5317.9	4468.2	3875.7	4187.1	2852.1	1819.3
70°	7513.3	7417.8	7286.6	7525.1	7887.0	6439.8	4501.0	3423.6	3127.4	1895.7	1095.0
72.5°	6615.6	6571.1	6810.6	7815.0	9322.3	7120.6	4068.6	2492.7	1816.4	1006.4	633.7
73°	6061.3	6051.5	6459.9	7611.7	9332.6	7015.8	3879.1	2316.9	1557.8	890.3	579.3
75°	2737.1	2815.9	3711.1	5814.0	8108.3	5781.2	2730.2	1329.1	880.0	615.1	437.3
77.5°	657.7	685.1	1161.1	2761.1	5120.5	3445.2	1237.0	657.2	562.7	434.4	319.3
80°	280.1	289.4	447.1	1020.1	2410.9	1387.4	570.0	440.3	389.3	303.1	223.8
82.5°	155.7	165.5	253.7	462.8	973.1	473.1	347.7	306.6	256.1	182.7	145.4
85°	88.1	93.5	148.4	258.6	412.3	190.0	208.1	203.7	144.5	94.0	71.5
87.5°	41.6	45.1	71.5	120.0	161.6	74.4	105.8	116.6	90.6	57.3	37.2
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2	1539.2
2.5°	1538.2	1547.0	1557.3	1562.7	1567.6	1573.5	1579.4	1579.4	1580.3	1580.8
5°	1527.4	1545.6	1561.7	1568.6	1570.0	1570.0	1568.6	1560.7	1553.9	1556.8
7.5°	1504.9	1531.4	1545.1	1542.6	1524.0	1502.5	1484.3	1462.3	1451.0	1449.1
10°	1472.6	1503.0	1505.4	1480.9	1434.9	1388.9	1350.7	1313.4	1295.8	1291.4
12.5°	1436.8	1464.8	1449.1	1398.6	1324.7	1257.6	1209.1	1171.4	1154.8	1150.4
15°	1407.9	1427.0	1387.4	1308.0	1215.0	1144.0	1103.8	1075.9	1064.2	1060.7
17.5°	1392.8	1396.7	1324.2	1217.0	1118.0	1058.8	1033.8	1020.6	1016.2	1013.7
20°	1400.1	1372.7	1264.0	1132.2	1038.7	997.1	991.2	987.8	986.8	985.3
22.5°	1436.8	1365.3	1208.6	1051.9	969.2	951.0	955.9	955.4	954.5	953.5
25°	1502.5	1371.7	1154.8	975.5	910.9	907.0	915.8	915.8	911.9	911.9
27.5°	1589.1	1384.9	1094.5	903.0	858.0	858.5	865.3	863.4	859.0	856.0
30°	1694.9	1393.3	1024.0	837.9	808.5	806.6	808.5	800.2	787.0	786.0
32.5°	1803.2	1383.0	942.2	780.1	756.1	751.7	750.3	738.5	723.3	718.9
35°	1901.1	1345.3	859.0	734.1	706.2	696.4	703.2	699.3	685.6	682.2
37.5°	1972.6	1275.2	784.0	693.4	670.4	668.0	672.4	673.9	657.7	654.3
40°	2020.6	1180.2	719.9	659.2	663.6	654.3	639.6	629.3	624.4	622.9
42.5°	2059.3	1081.3	666.0	643.0	665.0	638.1	606.3	589.6	598.4	602.4
45°	2103.8	984.8	621.0	622.9	657.7	619.5	583.3	567.1	570.5	571.5
47.5°	2165.1	867.3	572.5	590.6	633.2	606.8	569.1	546.0	529.9	522.5
50°	2249.8	728.2	522.0	554.4	609.2	597.5	547.0	522.5	492.7	485.8
52.5°	2308.5	598.4	480.4	524.0	587.7	578.9	529.4	497.6	466.2	460.3
55°	2276.7	497.1	444.2	490.2	559.3	555.8	514.7	472.1	447.6	442.7
57.5°	2117.6	432.9	416.3	458.4	524.5	536.2	495.1	450.5	432.9	429.5
60°	1813.9	392.8	398.6	436.8	496.1	516.7	475.5	438.8	427.0	424.6
62.5°	1407.5	365.8	385.4	421.2	474.1	502.9	464.7	437.3	432.9	430.0
65°	1008.3	344.3	371.2	405.5	454.0	490.2	460.8	435.4	436.3	433.9
67.5°	685.1	325.2	354.1	387.9	434.4	478.9	455.4	428.5	440.7	437.8
70°	479.4	306.6	334.0	365.3	409.9	463.3	445.6	418.2	417.2	405.5
72.5°	374.1	282.1	306.6	334.0	378.6	441.2	426.1	395.2	379.0	366.8
73°	357.0	276.2	299.7	327.1	371.7	435.9	420.7	388.8	370.7	359.5
75°	295.3	250.7	272.3	296.8	342.3	410.4	394.2	359.9	336.9	330.1
77.5°	232.1	214.5	235.1	257.1	301.7	373.2	355.0	322.2	309.5	303.6
80°	171.9	177.8	195.9	215.5	261.5	333.5	317.3	284.5	341.3	327.1
82.5°	121.0	134.7	151.3	169.0	219.4	294.8	275.2	241.4	249.8	207.6
85°	71.5	88.1	103.8	119.0	158.2	244.4	227.2	192.5	157.7	150.3
87.5°	41.6	49.0	53.4	69.1	108.7	184.1	160.1	142.5	81.8	55.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)