

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: P270068

Luminaire Tested: **GPC-AF-02-LED-E1-T3-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270068  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
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-T3-7027-1200  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11841.5 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 129  
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

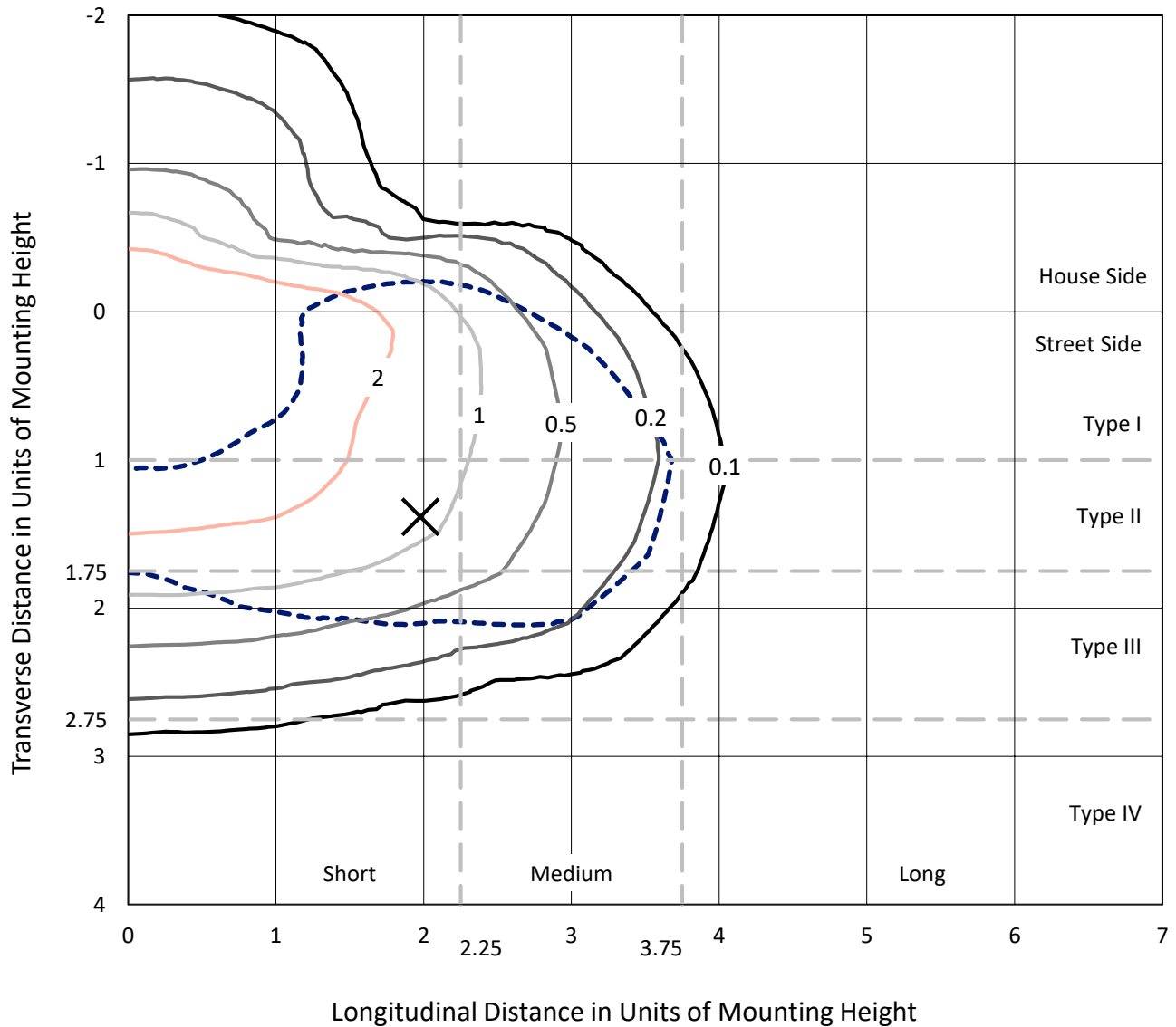


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### Iso-Footcandle Lines of Horizontal Illumination

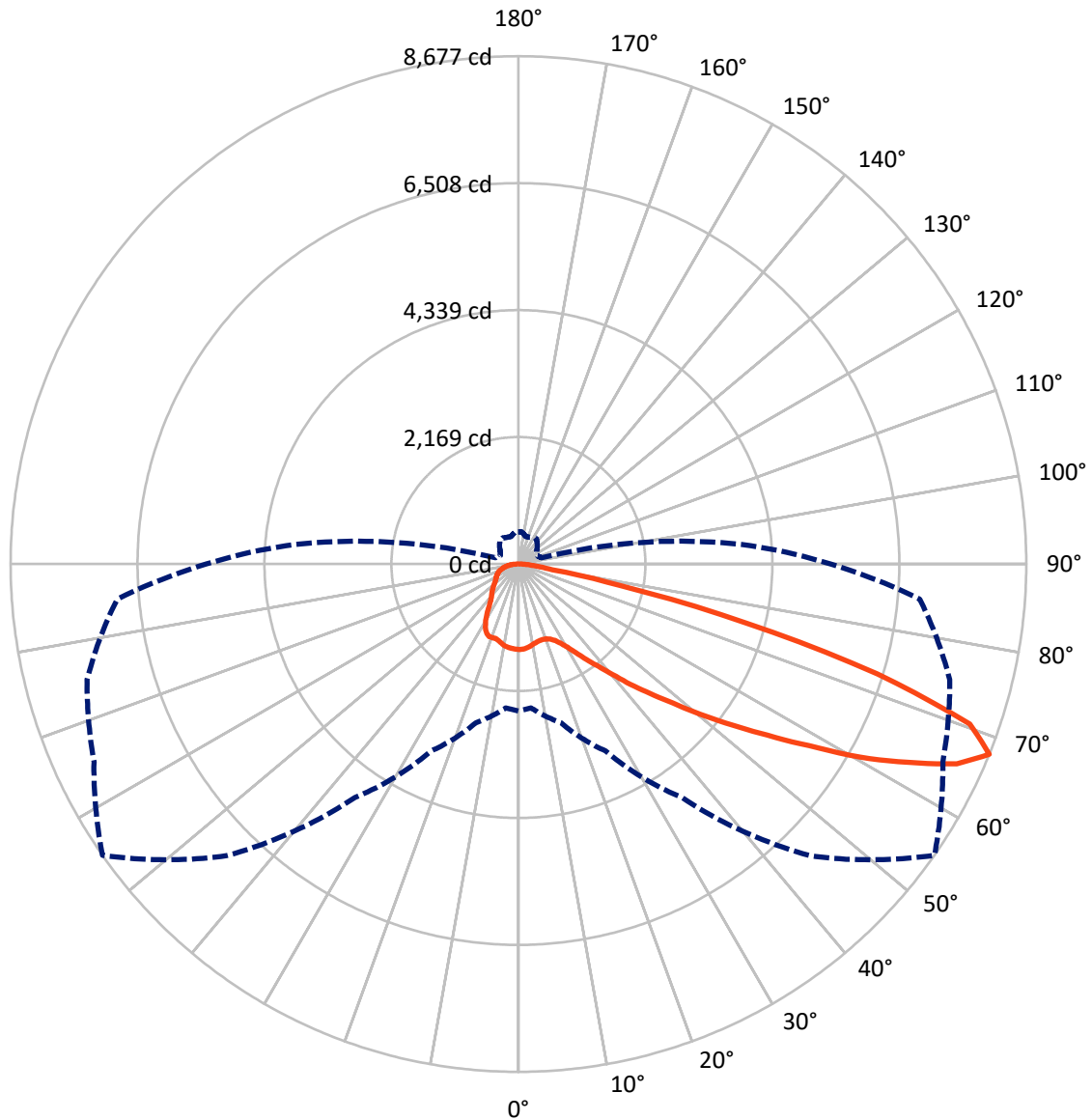
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2558.0	0.0	2558.0
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	9283.5	0.0	9283.5
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	11841.5	0.0	11841.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.3	1.2
10°-20°	386.0	3.3
20°-30°	646.6	5.5
30°-40°	1063.3	9.0
40°-50°	1789.9	15.1
50°-60°	2817.1	23.8
60°-70°	3361.9	28.4
70°-80°	1443.7	12.2
80°-90°	196.8	1.7
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°	11841.5	100.0
0°-180°	11841.5	100.0

**Coefficient of Utilization**



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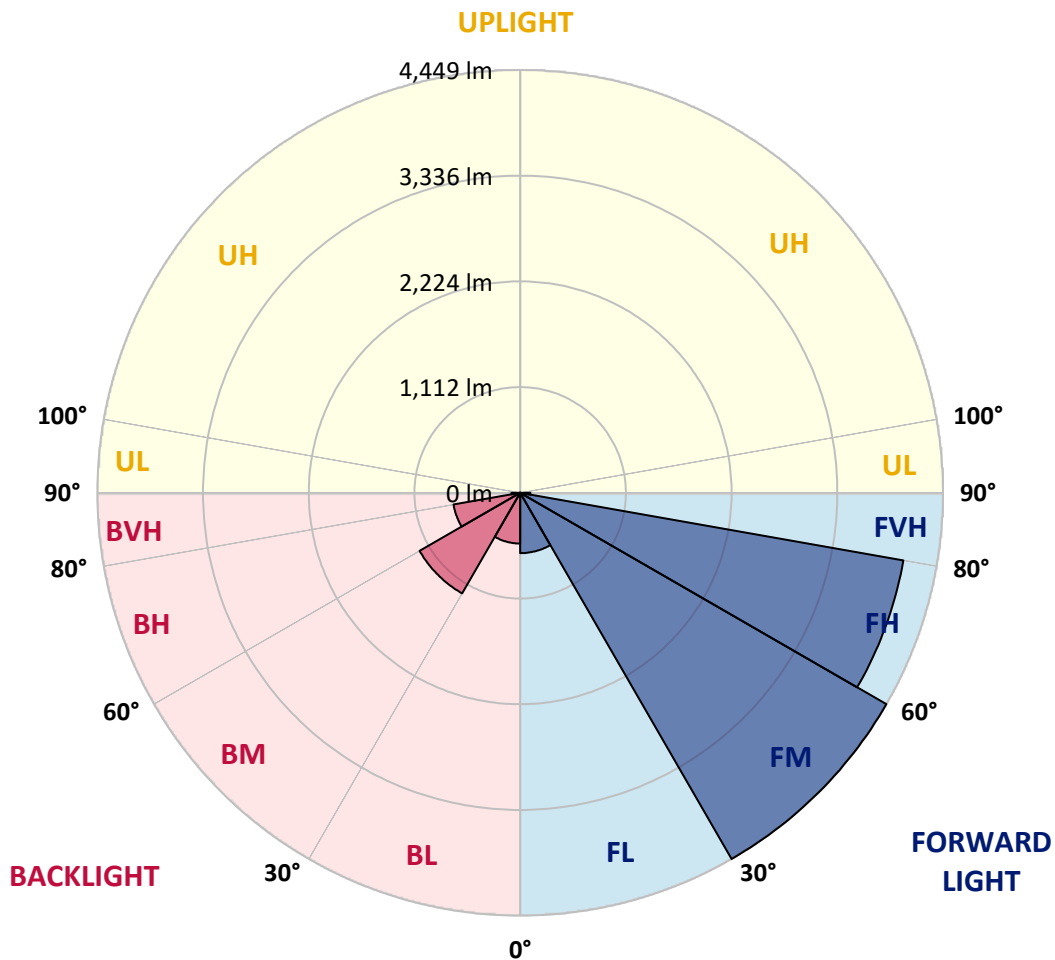
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	634.7	5.4			
FM	(30°-60°)	4448.6	37.6			
FH	(60°-80°)	4093.7	34.6			G2/5000
FVH	(80°-90°)	106.5	0.9			G2/225
BL	(0°-30°)	534.2	4.5	B2/1000		
BM	(30°-60°)	1221.7	10.3	B2/2500		
BH	(60°-80°)	711.9	6.0	B2/1000		G2/1000
BVH	(80°-90°)	90.3	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1
2.5°	1447.6	1448.2	1449.3	1453.8	1457.9	1456.7	1457.3	1455.1	1454.4	1451.0	1454.4
5°	1429.4	1431.0	1431.5	1439.1	1443.5	1444.7	1443.0	1440.3	1436.7	1433.3	1435.0
7.5°	1387.5	1392.2	1392.7	1403.1	1410.3	1420.2	1420.7	1421.3	1419.6	1417.3	1420.7
10°	1361.2	1362.4	1361.8	1369.2	1374.9	1385.8	1392.2	1403.1	1407.6	1408.7	1411.0
12.5°	1359.6	1358.3	1356.7	1356.7	1355.0	1359.6	1371.0	1386.4	1397.3	1400.6	1403.6
15°	1377.8	1377.2	1371.5	1363.0	1352.0	1348.6	1358.3	1375.6	1389.9	1397.3	1400.2
17.5°	1419.1	1415.5	1406.4	1387.1	1363.5	1354.4	1355.5	1369.8	1386.4	1396.1	1399.0
20°	1494.5	1494.5	1475.0	1438.5	1396.8	1374.9	1364.6	1373.2	1389.3	1402.4	1406.4
22.5°	1624.9	1626.0	1593.5	1533.3	1463.1	1416.7	1390.9	1389.3	1408.2	1423.0	1427.5
25°	1809.6	1805.1	1759.3	1673.5	1566.6	1489.8	1445.4	1435.0	1451.0	1467.7	1473.3
27.5°	2024.7	2008.2	1953.9	1850.2	1711.9	1599.7	1531.2	1514.5	1530.0	1548.9	1554.5
30°	2237.5	2220.3	2155.8	2042.4	1888.5	1746.8	1648.4	1621.5	1643.2	1670.0	1673.5
32.5°	2450.2	2450.2	2378.3	2246.0	2078.5	1922.4	1804.5	1772.4	1808.5	1841.2	1848.5
35°	2704.7	2706.0	2636.2	2477.2	2297.0	2131.7	2001.9	1978.3	2032.8	2055.6	2073.3
37.5°	3017.6	3024.0	2934.1	2741.9	2544.5	2370.7	2216.3	2184.3	2238.7	2301.0	2358.2
40°	3355.7	3363.7	3264.7	3027.8	2830.6	2648.7	2481.7	2423.9	2514.3	2633.3	2707.0
42.5°	3678.2	3719.4	3623.9	3380.2	3168.1	2979.9	2810.5	2726.4	2839.7	3019.4	3083.4
45°	4144.4	4174.2	4007.7	3787.0	3587.3	3376.8	3152.6	3063.9	3222.4	3448.9	3462.1
47.5°	4455.0	4432.6	4347.9	4210.7	4084.4	3887.5	3550.1	3452.8	3663.4	3929.8	3856.2
50°	4620.3	4627.1	4615.6	4623.7	4628.2	4504.7	4037.4	3904.2	4155.2	4477.2	4307.4
52.5°	4774.6	4728.9	4766.6	4954.2	5180.7	5135.0	4567.6	4428.6	4682.5	5084.6	4784.5
55°	4771.3	4701.5	4824.3	5155.6	5646.8	5699.4	5163.0	5002.9	5240.3	5736.0	5289.9
57.5°	4602.5	4605.9	4795.2	5228.8	5971.8	6230.3	5854.0	5613.7	5831.6	6396.1	5751.6
60°	4370.3	4401.8	4674.6	5216.7	6232.0	6665.6	6701.5	6272.1	6411.1	6996.1	6133.6
62.5°	3995.8	4028.9	4405.2	5092.1	6192.6	7084.8	7468.0	7018.9	7016.8	7360.0	6245.7
65°	3404.8	3395.1	3790.3	4625.9	5861.4	7394.8	8229.3	7664.8	7473.1	7365.7	6020.4
67.5°	2510.9	2467.5	2806.6	3523.2	4871.9	7047.7	8677.1	8001.1	7628.6	6881.1	5331.7
70°	1302.9	1259.5	1533.9	2057.3	3204.1	5500.5	8181.3	7827.2	7285.0	5768.1	4176.9
72.5°	557.0	549.7	661.2	902.5	1549.9	3172.6	6415.1	6774.7	6250.9	4297.6	2871.8
75°	374.7	372.3	414.1	491.9	697.3	1287.5	4014.5	4808.9	4573.4	2664.7	1615.2
77.5°	293.9	291.1	315.8	353.5	451.8	507.9	1781.6	2581.8	2389.6	1159.9	707.0
80°	230.0	227.6	243.1	263.7	324.8	320.2	586.2	1027.2	795.0	444.4	343.7
82.5°	181.3	181.3	193.9	194.5	230.4	218.5	306.1	452.4	397.0	259.2	210.5
85°	165.8	165.8	179.0	145.3	150.5	137.8	189.9	268.2	251.6	106.4	91.4
87.5°	83.5	81.1	150.5	128.6	81.7	73.2	92.6	129.8	139.5	58.8	45.8
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°	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1	1460.1
2.5°	1453.4	1452.7	1453.8	1454.4	1459.0	1465.3	1468.2	1472.2	1474.5	1473.3
5°	1436.2	1437.3	1441.9	1445.4	1453.4	1463.6	1469.4	1473.8	1477.9	1476.3
7.5°	1421.8	1424.7	1431.5	1434.5	1439.1	1441.9	1441.3	1443.0	1446.5	1442.5
10°	1413.8	1417.3	1422.5	1418.5	1407.6	1392.2	1377.8	1370.5	1372.7	1369.8
12.5°	1405.8	1410.3	1406.4	1387.5	1357.2	1337.2	1326.3	1327.4	1332.6	1333.9
15°	1401.3	1403.1	1385.8	1350.4	1319.5	1316.6	1322.3	1321.1	1321.8	1321.8
17.5°	1401.3	1396.8	1364.6	1329.2	1316.0	1310.9	1293.2	1270.9	1261.2	1257.7
20°	1408.7	1396.8	1357.8	1334.3	1305.7	1261.7	1214.8	1173.6	1155.3	1150.2
22.5°	1431.0	1410.3	1377.2	1336.7	1255.4	1181.6	1107.3	1058.2	1025.0	1019.2
25°	1476.3	1453.4	1415.5	1306.3	1175.3	1070.2	985.5	930.6	897.3	892.8
27.5°	1555.1	1540.2	1436.2	1239.4	1069.0	956.2	878.0	835.7	811.0	809.4
30°	1674.1	1666.6	1425.9	1140.5	938.0	845.9	808.1	783.6	765.3	764.6
32.5°	1864.1	1803.9	1392.2	1019.8	818.4	767.5	752.2	737.2	723.0	723.0
35°	2108.2	1914.8	1328.1	890.5	745.9	724.2	704.6	681.2	662.3	661.2
37.5°	2395.3	1983.5	1213.2	786.5	711.5	694.8	666.4	631.4	598.4	592.5
40°	2685.4	2004.1	1051.2	722.3	689.8	665.7	630.9	589.6	557.7	556.0
42.5°	2951.3	1964.7	879.7	678.3	668.0	636.0	599.3	562.8	537.6	537.0
45°	3174.3	1862.2	735.5	636.5	645.2	609.1	576.5	546.8	527.3	523.4
47.5°	3384.3	1717.6	634.4	592.5	622.3	594.3	566.8	538.8	519.8	517.1
50°	3627.9	1561.4	563.3	549.7	602.3	589.1	574.8	545.6	514.2	510.7
52.5°	3923.0	1426.5	507.9	511.9	586.9	595.9	595.3	565.2	510.1	505.6
55°	4252.4	1276.6	466.1	481.0	580.6	608.5	600.5	583.4	513.7	506.7
57.5°	4576.8	1101.6	436.9	457.5	571.4	607.4	576.0	551.4	521.6	511.9
60°	4819.9	866.5	414.7	436.9	551.4	588.5	549.0	516.4	519.8	512.5
62.5°	4835.8	669.7	387.8	419.2	521.0	569.6	531.3	501.1	527.3	520.5
65°	4551.6	506.1	362.0	398.0	488.5	557.7	514.2	492.5	542.8	535.3
67.5°	3832.1	407.2	340.3	376.3	455.8	532.4	498.7	484.5	556.5	543.4
70°	2766.5	347.1	319.2	350.0	426.6	503.9	485.1	470.2	519.3	498.7
72.5°	1703.2	300.8	295.2	315.1	404.3	474.1	464.5	443.3	467.8	451.3
75°	850.4	260.8	268.2	280.8	372.8	440.3	430.1	409.0	412.4	409.0
77.5°	407.2	223.0	236.9	246.6	332.4	402.1	391.2	369.6	365.5	366.1
80°	258.0	186.5	199.7	206.5	296.8	357.4	346.6	324.8	370.6	343.7
82.5°	161.2	151.5	155.0	167.5	258.5	311.2	296.8	277.3	334.0	264.2
85°	89.2	105.8	110.4	121.2	199.1	260.1	246.0	221.3	198.4	195.0
87.5°	53.2	62.9	64.7	72.7	133.8	188.1	166.5	157.8	131.0	130.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)