

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: P200032

Luminaire Tested: **GWC-AF-02-LED-E1-T3-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200032  
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: GWC-AF-02-LED-E1-T3-7030  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12017.4 lumens  
Efficiency: N/A  
Efficacy: 106.3 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

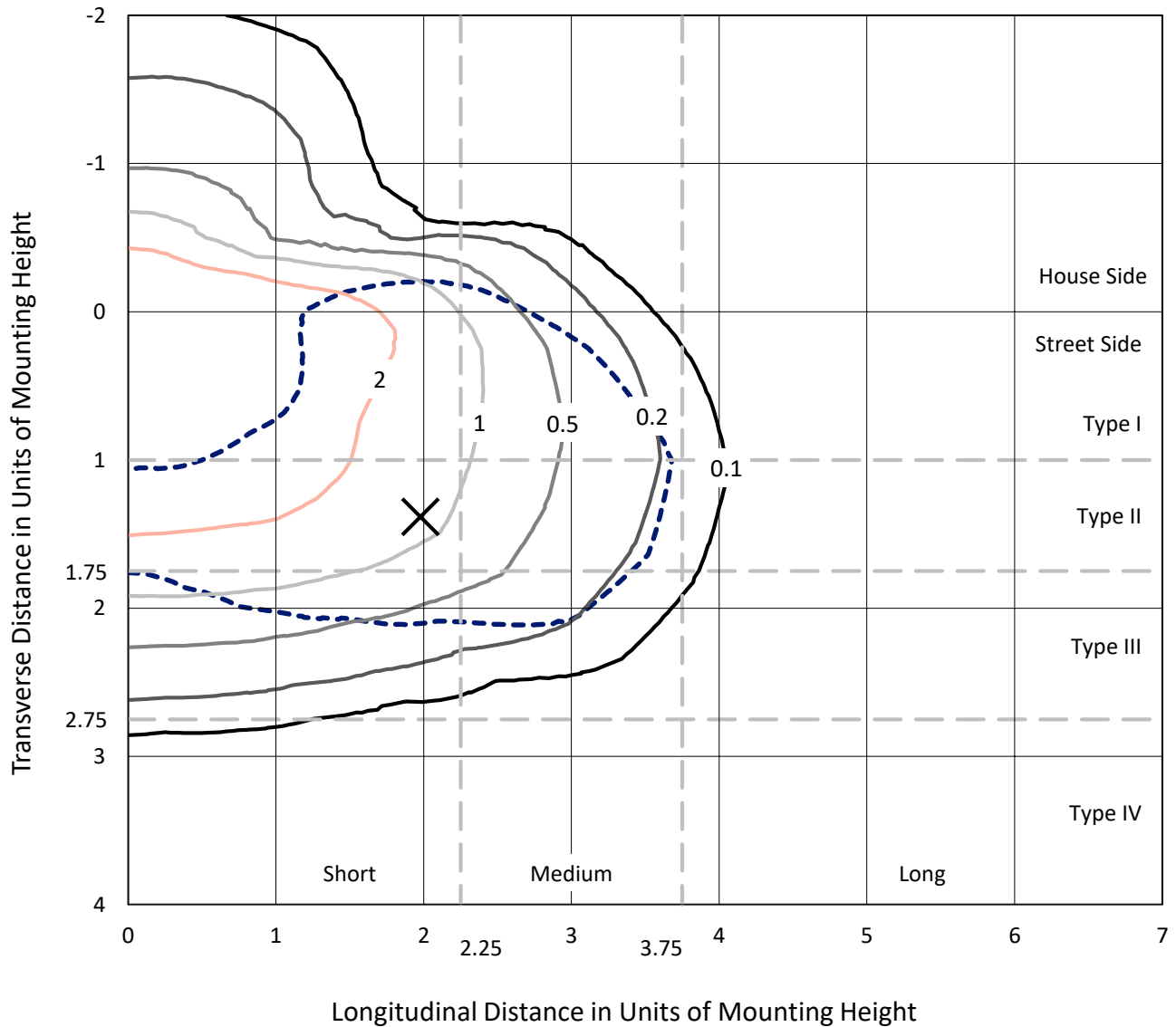
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

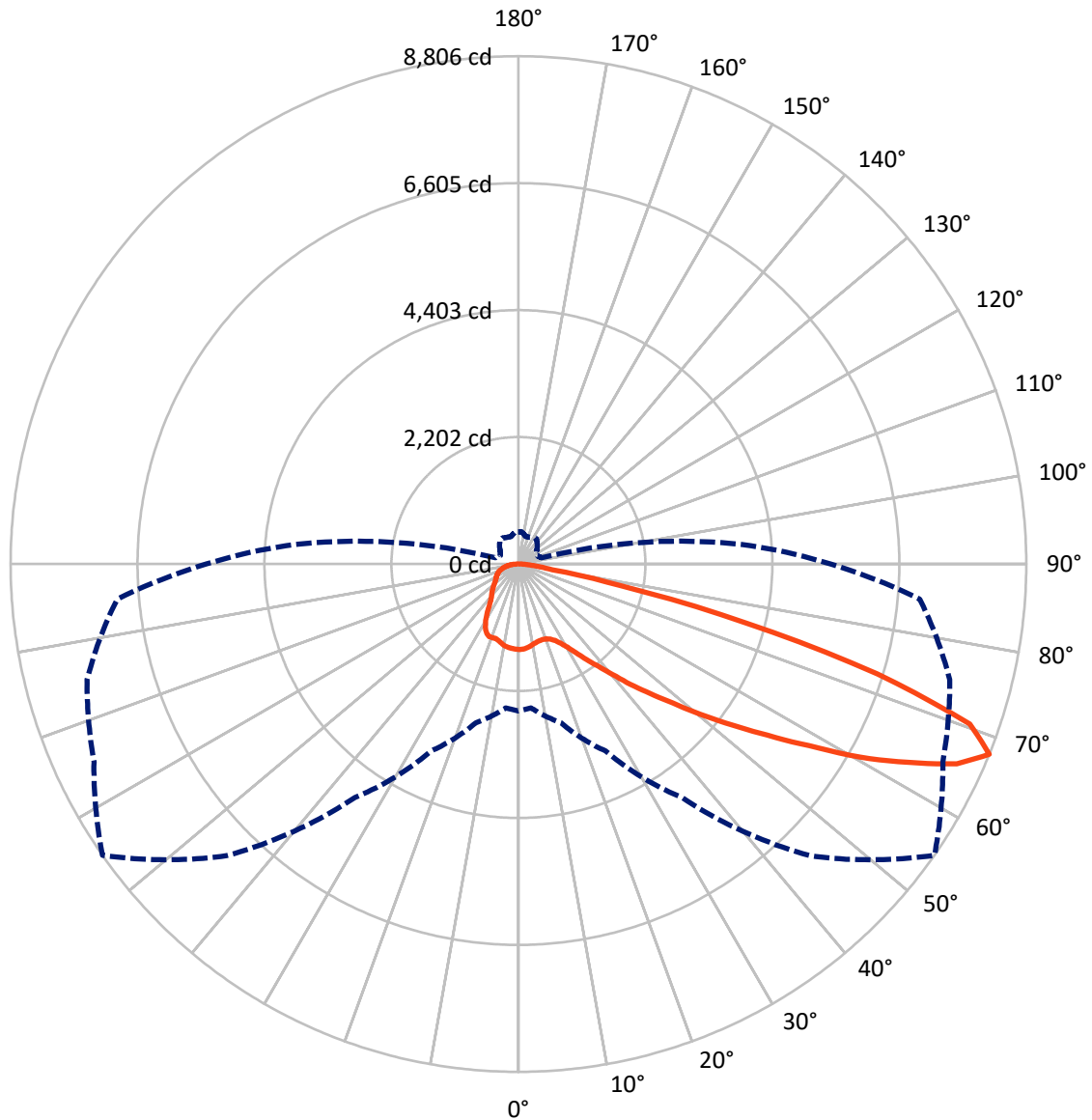
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 fc  
 Type 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	2596.0	0.0	2596.0
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	9421.4	0.0	9421.4
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	12017.4	0.0	12017.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.3	1.2
10°-20°	391.7	3.3
20°-30°	656.2	5.5
30°-40°	1079.1	9.0
40°-50°	1816.4	15.1
50°-60°	2858.9	23.8
60°-70°	3411.8	28.4
70°-80°	1465.1	12.2
80°-90°	199.8	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°	12017.4	100.0
0°-180°	12017.4	100.0

**Coefficient of Utilization**



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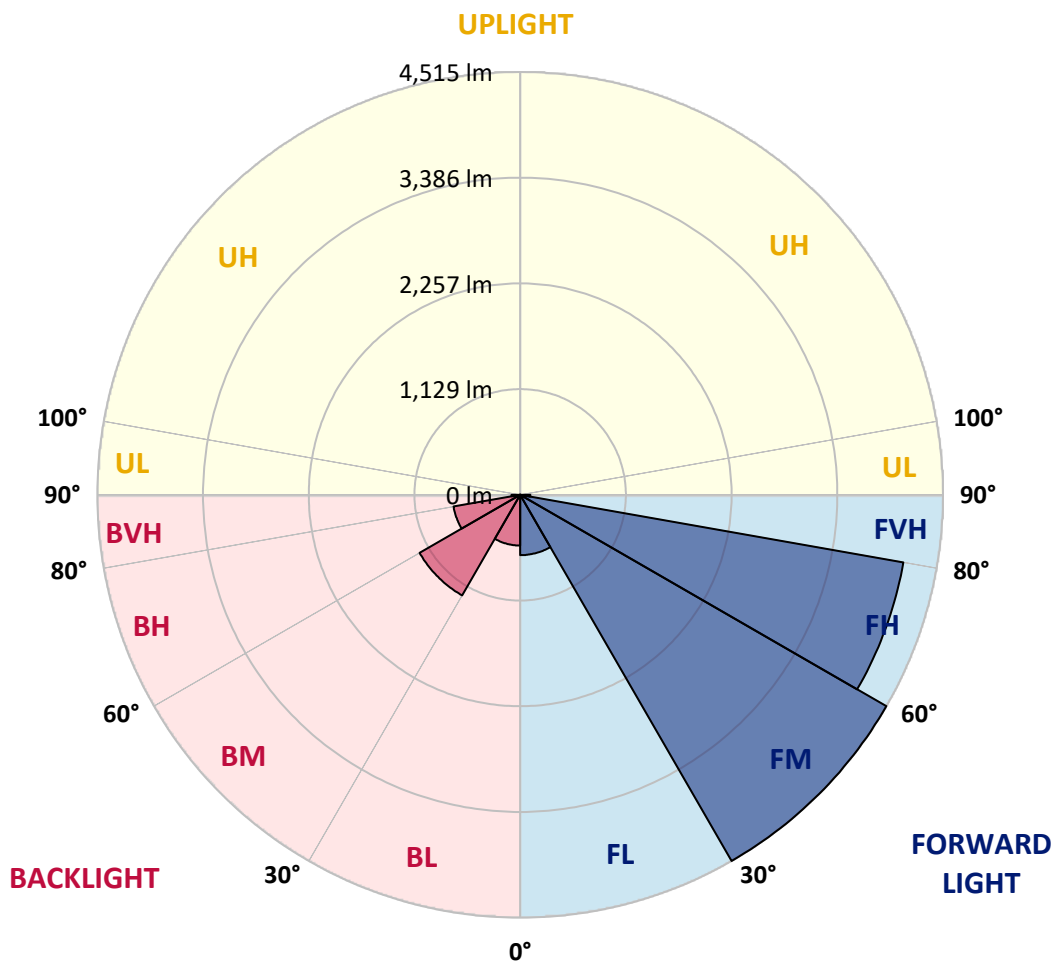
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	644.2	5.4			
FM	(30°-60°)	4514.6	37.6			
FH	(60°-80°)	4154.5	34.6			G2/5000
FVH	(80°-90°)	108.1	0.9			G2/225
BL	(0°-30°)	542.1	4.5	B2/1000		
BM	(30°-60°)	1239.8	10.3	B2/2500		
BH	(60°-80°)	722.5	6.0	B2/1000		G2/1000
BVH	(80°-90°)	91.6	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°	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9
2.5°	1469.1	1469.6	1470.8	1475.5	1479.6	1478.4	1479.0	1476.6	1476.1	1472.6	1476.1
5°	1450.5	1452.3	1452.8	1460.4	1465.0	1466.3	1464.5	1461.6	1458.1	1454.6	1456.3
7.5°	1408.2	1412.8	1413.4	1423.8	1431.4	1441.2	1441.7	1442.4	1440.7	1438.4	1441.7
10°	1381.5	1382.6	1382.0	1389.6	1395.4	1406.3	1412.8	1423.8	1428.4	1429.6	1432.0
12.5°	1379.7	1378.6	1376.7	1376.7	1375.0	1379.7	1391.3	1407.0	1418.0	1421.5	1424.4
15°	1398.3	1397.8	1392.0	1383.2	1372.2	1368.7	1378.6	1396.0	1410.5	1418.0	1420.9
17.5°	1440.0	1436.6	1427.4	1407.6	1383.8	1374.5	1375.7	1390.3	1407.0	1416.9	1419.9
20°	1516.7	1516.7	1497.0	1459.8	1417.4	1395.4	1385.0	1393.6	1409.9	1423.2	1427.4
22.5°	1649.0	1650.3	1617.1	1556.2	1484.9	1437.8	1411.6	1409.9	1429.1	1444.2	1448.8
25°	1836.5	1831.8	1785.4	1698.4	1589.8	1512.0	1466.8	1456.3	1472.6	1489.4	1495.2
27.5°	2054.7	2037.9	1982.8	1877.7	1737.2	1623.5	1553.8	1537.1	1552.7	1571.8	1577.7
30°	2270.7	2253.3	2187.7	2072.7	1916.6	1772.7	1672.9	1645.6	1667.7	1694.9	1698.4
32.5°	2486.6	2486.6	2413.5	2279.3	2109.4	1951.0	1831.3	1798.9	1835.3	1868.5	1876.0
35°	2744.9	2746.1	2675.3	2513.9	2331.0	2163.4	2031.5	2007.7	2063.0	2086.1	2104.2
37.5°	3062.4	3068.9	2977.7	2782.7	2582.5	2406.0	2249.2	2216.8	2271.8	2335.1	2393.3
40°	3405.5	3413.6	3313.2	3072.9	2872.7	2688.0	2518.5	2460.0	2551.6	2672.4	2747.3
42.5°	3732.9	3774.7	3677.6	3430.4	3215.1	3024.1	2852.3	2767.0	2881.9	3064.1	3129.1
45°	4205.9	4236.1	4067.1	3843.0	3640.5	3426.9	3199.4	3109.4	3270.2	3500.1	3513.4
47.5°	4521.1	4498.4	4412.6	4273.2	4145.0	3945.3	3602.9	3504.2	3717.8	3988.3	3913.3
50°	4688.9	4695.9	4684.2	4692.3	4696.9	4571.6	4097.3	3962.2	4217.0	4543.8	4371.4
52.5°	4845.5	4799.1	4837.5	5027.8	5257.7	5211.2	4635.5	4494.4	4752.1	5160.2	4855.5
55°	4842.1	4771.3	4896.0	5232.1	5730.7	5784.1	5239.6	5077.2	5318.0	5821.4	5368.6
57.5°	4670.9	4674.3	4866.5	5306.4	6060.4	6322.9	5940.9	5697.1	5918.2	6491.1	5836.9
60°	4435.2	4467.1	4744.0	5294.2	6324.6	6764.6	6801.1	6365.2	6506.2	7100.0	6224.7
62.5°	4055.0	4088.7	4470.6	5167.8	6284.5	7190.1	7578.9	7123.2	7120.9	7469.2	6338.4
65°	3455.5	3445.5	3846.6	4694.7	5948.4	7504.6	8351.4	7778.6	7584.1	7475.0	6109.8
67.5°	2548.2	2504.0	2848.3	3575.5	4944.2	7152.2	8806.0	8119.8	7742.0	6983.3	5410.9
70°	1322.2	1278.2	1556.7	2087.8	3251.7	5582.2	8302.7	7943.3	7393.1	5853.8	4239.0
72.5°	565.3	557.8	671.0	915.9	1573.0	3219.8	6510.3	6875.3	6343.7	4361.5	2914.4
75°	380.2	377.8	420.2	499.2	707.6	1306.6	4074.2	4880.4	4641.3	2704.2	1639.2
77.5°	298.4	295.4	320.4	358.7	458.6	515.4	1808.1	2620.1	2425.1	1177.2	717.4
80°	233.4	231.0	246.7	267.5	329.8	325.0	594.9	1042.5	806.8	451.0	348.9
82.5°	184.0	184.0	196.7	197.3	234.0	221.7	310.6	459.1	402.8	263.0	213.6
85°	168.4	168.4	181.7	147.4	152.6	139.9	192.8	272.3	255.4	107.9	92.9
87.5°	84.7	82.4	152.6	130.6	83.0	74.3	94.1	131.7	141.6	59.8	46.4
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°	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9	1481.9
2.5°	1474.9	1474.4	1475.5	1476.1	1480.7	1487.1	1490.0	1494.1	1496.5	1495.2
5°	1457.5	1458.6	1463.3	1466.8	1474.9	1485.4	1491.2	1495.8	1499.9	1498.2
7.5°	1443.0	1445.9	1452.8	1455.8	1460.4	1463.3	1462.8	1464.5	1467.9	1463.8
10°	1434.9	1438.4	1443.6	1439.5	1428.4	1412.8	1398.3	1390.8	1393.0	1390.3
12.5°	1426.7	1431.4	1427.4	1408.2	1377.4	1357.1	1346.1	1347.1	1352.4	1353.6
15°	1422.1	1423.8	1406.3	1370.4	1339.1	1336.2	1342.0	1340.8	1341.3	1341.3
17.5°	1422.1	1417.4	1385.0	1349.0	1335.5	1330.3	1312.4	1289.8	1279.9	1276.3
20°	1429.6	1417.4	1378.0	1354.2	1325.2	1280.5	1232.9	1191.0	1172.5	1167.3
22.5°	1452.3	1431.4	1397.8	1356.5	1274.1	1199.2	1123.7	1073.8	1040.1	1034.3
25°	1498.2	1474.9	1436.6	1325.8	1192.8	1086.0	1000.2	944.4	910.6	906.1
27.5°	1578.2	1563.2	1457.5	1257.8	1084.8	970.6	891.0	848.1	823.0	821.3
30°	1699.0	1691.5	1447.0	1157.4	951.9	858.4	820.2	795.2	776.7	776.1
32.5°	1891.8	1830.7	1412.8	1034.9	830.6	778.9	763.2	748.2	733.6	733.6
35°	2139.6	1943.2	1347.8	903.8	756.9	734.9	715.1	691.3	672.2	671.0
37.5°	2430.9	2013.0	1231.2	798.1	722.1	705.3	676.2	640.8	607.2	601.4
40°	2725.2	2033.9	1066.8	733.1	700.1	675.7	640.3	598.4	566.0	564.3
42.5°	2995.2	1993.9	892.7	688.5	678.0	645.5	608.3	571.2	545.6	544.9
45°	3221.5	1889.9	746.5	646.0	654.8	618.2	585.1	554.9	535.2	531.1
47.5°	3434.4	1743.1	643.7	601.4	631.5	603.1	575.2	546.8	527.6	524.8
50°	3681.8	1584.6	571.8	557.8	611.2	597.8	583.3	553.7	521.8	518.3
52.5°	3981.3	1447.6	515.4	519.5	595.6	604.9	604.2	573.5	517.8	513.1
55°	4315.6	1295.6	473.1	488.2	589.1	617.7	609.4	592.0	521.2	514.3
57.5°	4644.7	1117.9	443.5	464.4	579.8	616.4	584.5	559.5	529.4	519.5
60°	4891.4	879.4	420.8	443.5	559.5	597.3	557.2	524.1	527.6	520.1
62.5°	4907.7	679.7	393.6	425.4	528.9	578.1	539.2	508.5	535.2	528.2
65°	4619.2	513.7	367.4	404.0	495.7	566.0	521.8	499.8	550.8	543.3
67.5°	3889.0	413.3	345.4	382.0	462.6	540.4	506.2	491.6	564.8	551.4
70°	2807.6	352.4	323.9	355.2	433.0	511.4	492.2	477.1	527.0	506.2
72.5°	1728.6	305.3	299.5	319.8	410.4	481.2	471.4	449.8	474.8	458.1
75°	863.1	264.7	272.3	284.9	378.5	447.0	436.5	414.9	418.5	414.9
77.5°	413.3	226.3	240.3	250.2	337.3	408.1	397.0	375.0	370.9	371.5
80°	261.7	189.2	202.5	209.6	301.2	362.7	351.7	329.8	376.2	348.9
82.5°	163.7	153.8	157.4	170.1	262.3	315.8	301.2	281.6	339.0	268.1
85°	90.5	107.4	112.0	123.0	202.0	264.1	249.5	224.6	201.4	198.0
87.5°	54.0	63.8	65.5	73.8	135.8	190.9	169.0	160.2	133.0	132.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)