

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: P193981

Luminaire Tested: **GLEON-AF-03-LED-E1-T3-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193981  
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: GLEON-AF-03-LED-E1-T3-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11983 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

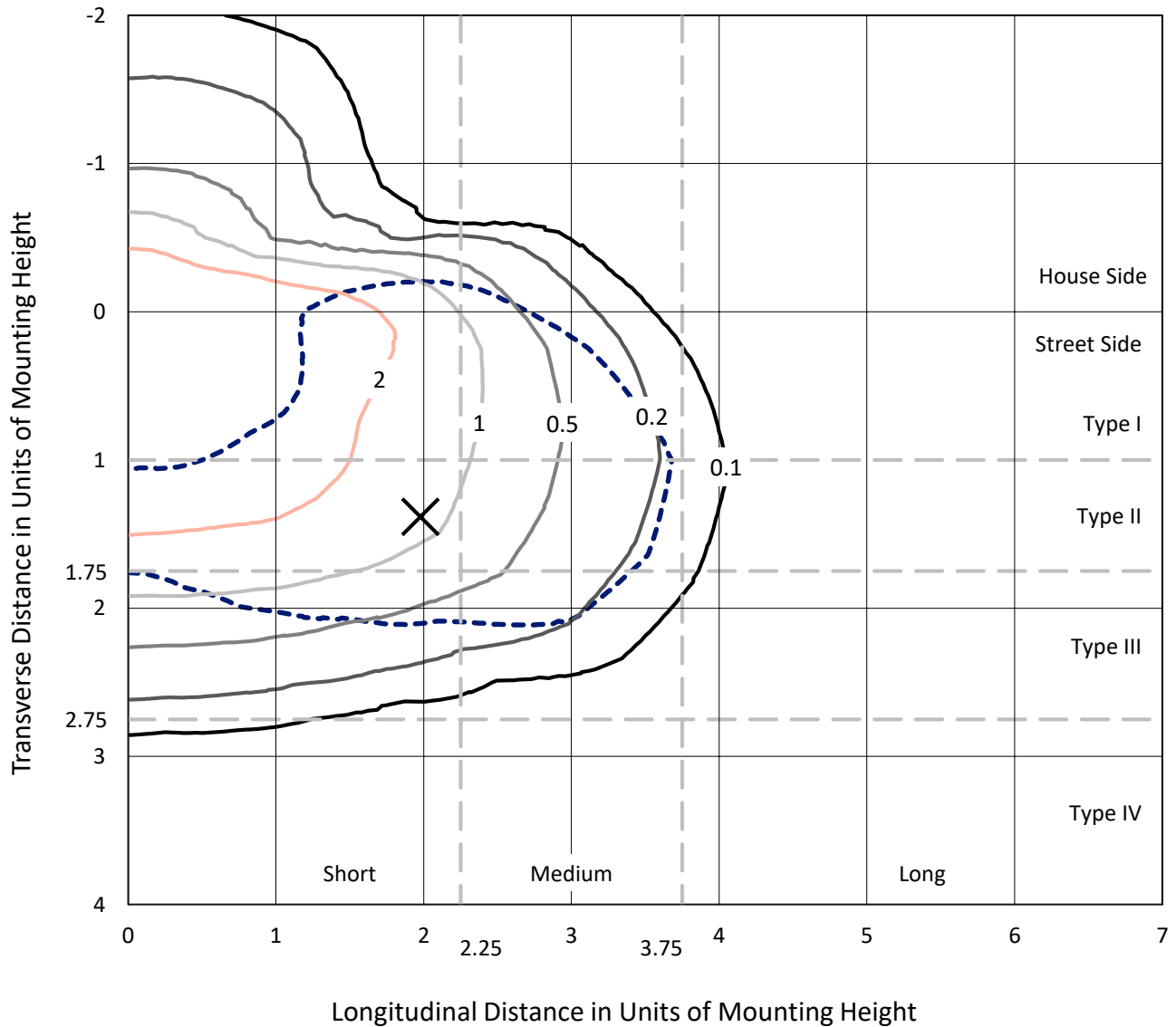
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

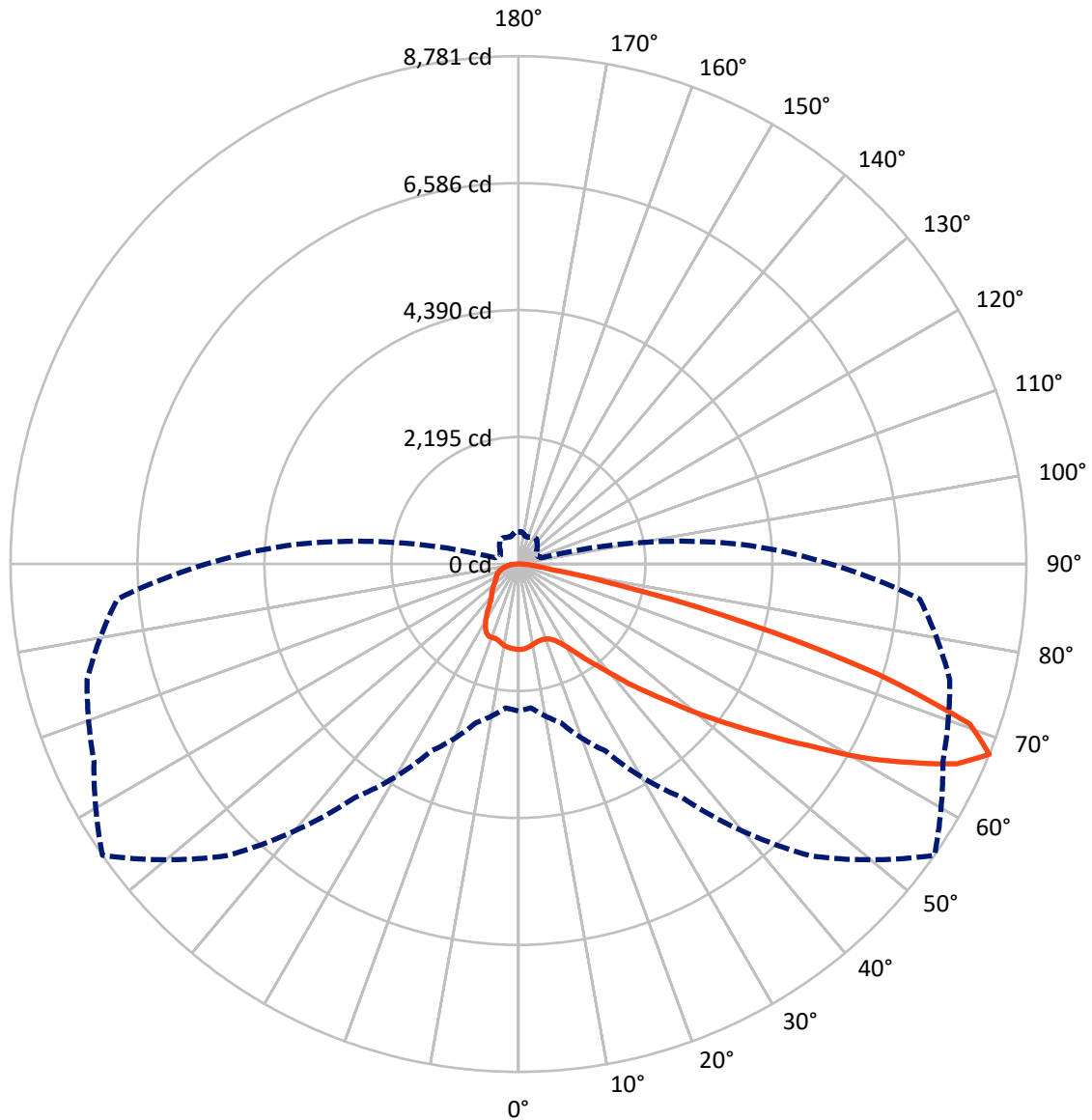
✕ Max cd  
 - - - 1/2 Max cd



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	2588.6	0.0	2588.6
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	9394.4	0.0	9394.4
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	11983.0	0.0	11983.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.9	1.2
10°-20°	390.6	3.3
20°-30°	654.3	5.5
30°-40°	1076.0	9.0
40°-50°	1811.2	15.1
50°-60°	2850.7	23.8
60°-70°	3402.1	28.4
70°-80°	1460.9	12.2
80°-90°	199.2	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°	11983.0	100.0
0°-180°	11983.0	100.0



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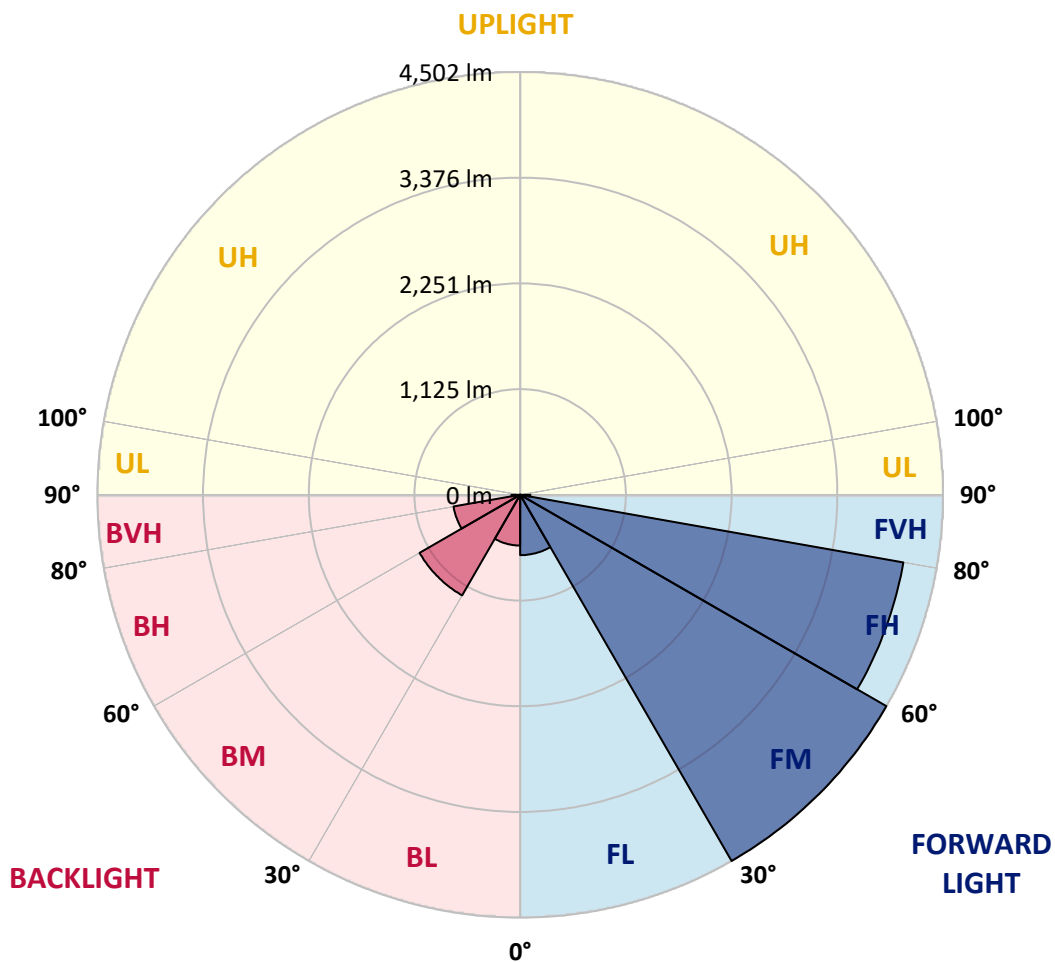
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	642.3	5.4			
FM (30°-60°)	4501.7	37.6			
FH (60°-80°)	4142.6	34.6			G2/5000
FVH (80°-90°)	107.8	0.9			G2/225
BL (0°-30°)	540.5	4.5	B2/1000		
BM (30°-60°)	1236.3	10.3	B2/2500		
BH (60°-80°)	720.4	6.0	B2/1000		G2/1000
BVH (80°-90°)	91.4	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6
2.5°	1464.9	1465.5	1466.6	1471.3	1475.3	1474.2	1474.7	1472.4	1471.8	1468.4	1471.8
5°	1446.4	1448.1	1448.7	1456.2	1460.9	1462.0	1460.3	1457.4	1453.9	1450.4	1452.2
7.5°	1404.1	1408.8	1409.3	1419.8	1427.3	1437.1	1437.7	1438.3	1436.5	1434.2	1437.7
10°	1377.5	1378.7	1378.1	1385.6	1391.4	1402.4	1408.8	1419.8	1424.4	1425.5	1427.9
12.5°	1375.8	1374.6	1372.9	1372.9	1371.1	1375.8	1387.3	1403.0	1414.0	1417.4	1420.3
15°	1394.3	1393.7	1387.9	1379.2	1368.2	1364.8	1374.6	1392.0	1406.4	1414.0	1416.9
17.5°	1436.0	1432.5	1423.2	1403.6	1379.8	1370.6	1371.7	1386.2	1403.0	1412.8	1415.7
20°	1512.4	1512.4	1492.7	1455.6	1413.4	1391.4	1381.0	1389.7	1405.9	1419.2	1423.2
22.5°	1644.3	1645.5	1612.5	1551.7	1480.5	1433.6	1407.6	1405.9	1425.0	1440.0	1444.6
25°	1831.3	1826.6	1780.3	1693.5	1585.3	1507.7	1462.6	1452.2	1468.4	1485.2	1490.9
27.5°	2048.9	2032.1	1977.1	1872.4	1732.3	1618.9	1549.4	1532.6	1548.2	1567.3	1573.1
30°	2264.2	2246.8	2181.4	2066.8	1911.1	1767.6	1668.1	1640.9	1662.8	1690.0	1693.5
32.5°	2479.5	2479.5	2406.6	2272.9	2103.3	1945.3	1826.1	1793.7	1830.1	1863.1	1870.6
35°	2737.1	2738.2	2667.6	2506.7	2324.4	2157.1	2025.7	2002.0	2057.0	2080.1	2098.1
37.5°	3053.7	3060.0	2969.2	2774.7	2575.0	2399.1	2242.8	2210.4	2265.4	2328.4	2386.3
40°	3395.7	3403.8	3303.7	3064.1	2864.4	2680.3	2511.3	2452.9	2544.3	2664.7	2739.4
42.5°	3722.2	3763.8	3667.2	3420.6	3205.9	3015.5	2844.1	2759.1	2873.7	3055.4	3120.2
45°	4193.9	4224.0	4055.5	3832.1	3630.1	3417.1	3190.3	3100.5	3260.9	3490.1	3503.4
47.5°	4508.1	4485.6	4399.9	4261.0	4133.1	3934.0	3592.5	3494.1	3707.1	3976.8	3902.2
50°	4675.4	4682.4	4670.8	4678.9	4683.5	4558.5	4085.6	3950.8	4204.9	4530.7	4358.8
52.5°	4831.7	4785.4	4823.6	5013.4	5242.6	5196.3	4622.2	4481.5	4738.5	5145.4	4841.5
55°	4828.2	4757.6	4882.0	5217.2	5714.3	5767.6	5224.7	5062.6	5302.8	5804.6	5353.2
57.5°	4657.5	4660.9	4852.5	5291.2	6043.1	6304.7	5923.9	5680.8	5901.3	6472.5	5820.2
60°	4422.5	4454.3	4730.4	5279.1	6306.4	6745.1	6781.6	6346.9	6487.6	7079.7	6206.9
62.5°	4043.4	4077.0	4457.8	5152.9	6266.5	7169.4	7557.2	7102.8	7100.5	7447.8	6320.3
65°	3445.5	3435.7	3835.6	4681.2	5931.4	7483.1	8327.5	7756.3	7562.4	7453.6	6092.3
67.5°	2540.9	2496.9	2840.1	3565.3	4930.1	7131.8	8780.7	8096.6	7719.8	6963.3	5395.4
70°	1318.5	1274.5	1552.3	2081.9	3242.3	5566.2	8278.9	7920.7	7372.0	5837.0	4226.9
72.5°	563.7	556.2	669.1	913.3	1568.5	3210.5	6491.6	6855.7	6325.5	4349.0	2906.1
75°	379.1	376.8	419.0	497.8	705.5	1302.8	4062.5	4866.4	4628.0	2696.6	1634.5
77.5°	297.5	294.6	319.5	357.7	457.2	514.0	1802.9	2612.6	2418.2	1173.8	715.4
80°	232.7	230.4	246.0	266.8	328.7	324.1	593.3	1039.5	804.5	449.7	347.8
82.5°	183.5	183.5	196.2	196.8	233.2	221.1	309.6	457.8	401.7	262.2	213.0
85°	167.8	167.8	181.2	147.0	152.2	139.5	192.2	271.4	254.7	107.7	92.6
87.5°	84.5	82.2	152.2	130.2	82.8	74.1	93.8	131.4	141.2	59.6	46.3
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6
2.5°	1470.7	1470.1	1471.3	1471.8	1476.5	1482.8	1485.7	1489.8	1492.1	1490.9
5°	1453.3	1454.5	1459.1	1462.6	1470.7	1481.1	1486.9	1491.5	1495.6	1493.8
7.5°	1438.9	1441.8	1448.7	1451.6	1456.2	1459.1	1458.5	1460.3	1463.7	1459.7
10°	1430.8	1434.2	1439.4	1435.4	1424.4	1408.8	1394.3	1386.8	1389.1	1386.2
12.5°	1422.7	1427.3	1423.2	1404.1	1373.5	1353.2	1342.2	1343.4	1348.6	1349.7
15°	1418.0	1419.8	1402.4	1366.5	1335.3	1332.4	1338.1	1337.0	1337.6	1337.6
17.5°	1418.0	1413.4	1381.0	1345.1	1331.8	1326.6	1308.6	1286.1	1276.2	1272.7
20°	1425.5	1413.4	1374.0	1350.3	1321.4	1276.8	1229.3	1187.7	1169.1	1163.9
22.5°	1448.1	1427.3	1393.7	1352.6	1270.4	1195.8	1120.5	1070.7	1037.2	1031.4
25°	1493.8	1470.7	1432.5	1321.9	1189.4	1082.9	997.2	941.7	908.1	903.5
27.5°	1573.7	1558.7	1453.3	1254.2	1081.7	967.7	888.4	845.6	820.7	819.0
30°	1694.1	1686.6	1442.9	1154.1	949.2	856.0	817.8	792.9	774.4	773.8
32.5°	1886.3	1825.5	1408.8	1032.0	828.2	776.7	761.1	746.1	731.6	731.6
35°	2133.4	1937.8	1343.9	901.2	754.7	732.7	713.1	689.3	670.2	669.1
37.5°	2423.9	2007.2	1227.6	795.8	720.0	703.2	674.3	639.0	605.4	599.6
40°	2717.4	2028.1	1063.8	731.0	698.0	673.7	638.4	596.7	564.3	562.6
42.5°	2986.5	1988.1	890.2	686.4	676.0	643.6	606.6	569.5	544.1	543.5
45°	3212.2	1884.5	744.3	644.2	652.9	616.4	583.4	553.3	533.6	529.6
47.5°	3424.7	1738.1	641.9	599.6	629.7	601.4	573.6	545.2	526.1	523.2
50°	3671.2	1580.1	570.1	556.2	609.5	596.1	581.7	552.2	520.3	516.9
52.5°	3969.9	1443.5	514.0	518.0	593.8	603.1	602.5	571.8	516.3	511.6
55°	4303.3	1291.8	471.7	486.8	587.5	615.8	607.7	590.4	519.7	512.8
57.5°	4631.4	1114.7	442.2	463.0	578.2	614.7	582.8	557.9	527.9	518.0
60°	4877.4	876.9	419.6	442.2	557.9	595.6	555.6	522.6	526.1	518.6
62.5°	4893.6	677.8	392.4	424.2	527.3	576.5	537.7	507.0	533.6	526.7
65°	4606.0	512.2	366.4	402.8	494.3	564.3	520.3	498.3	549.3	541.7
67.5°	3877.9	412.1	344.4	380.8	461.3	538.8	504.7	490.2	563.2	549.8
70°	2799.6	351.3	323.0	354.2	431.8	509.9	490.8	475.8	525.5	504.7
72.5°	1723.6	304.4	298.7	318.9	409.2	479.8	470.0	448.6	473.4	456.7
75°	860.7	263.9	271.4	284.2	377.4	445.7	435.2	413.8	417.3	413.8
77.5°	412.1	225.7	239.6	249.5	336.3	406.9	395.9	373.9	369.8	370.4
80°	261.0	188.7	202.0	208.9	300.4	361.7	350.7	328.7	375.1	347.8
82.5°	163.2	153.4	156.9	169.6	261.6	314.9	300.4	280.7	338.0	267.4
85°	90.3	107.1	111.7	122.7	201.4	263.3	248.9	224.0	200.8	197.4
87.5°	53.8	63.7	65.4	73.5	135.4	190.4	168.4	159.7	132.5	132.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)