

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: P191431

Luminaire Tested: **GLEON-AF-03-LED-E1-T3-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191431
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-T3-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12250.9 lumens
Efficiency: N/A
Efficacy: 127.6 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

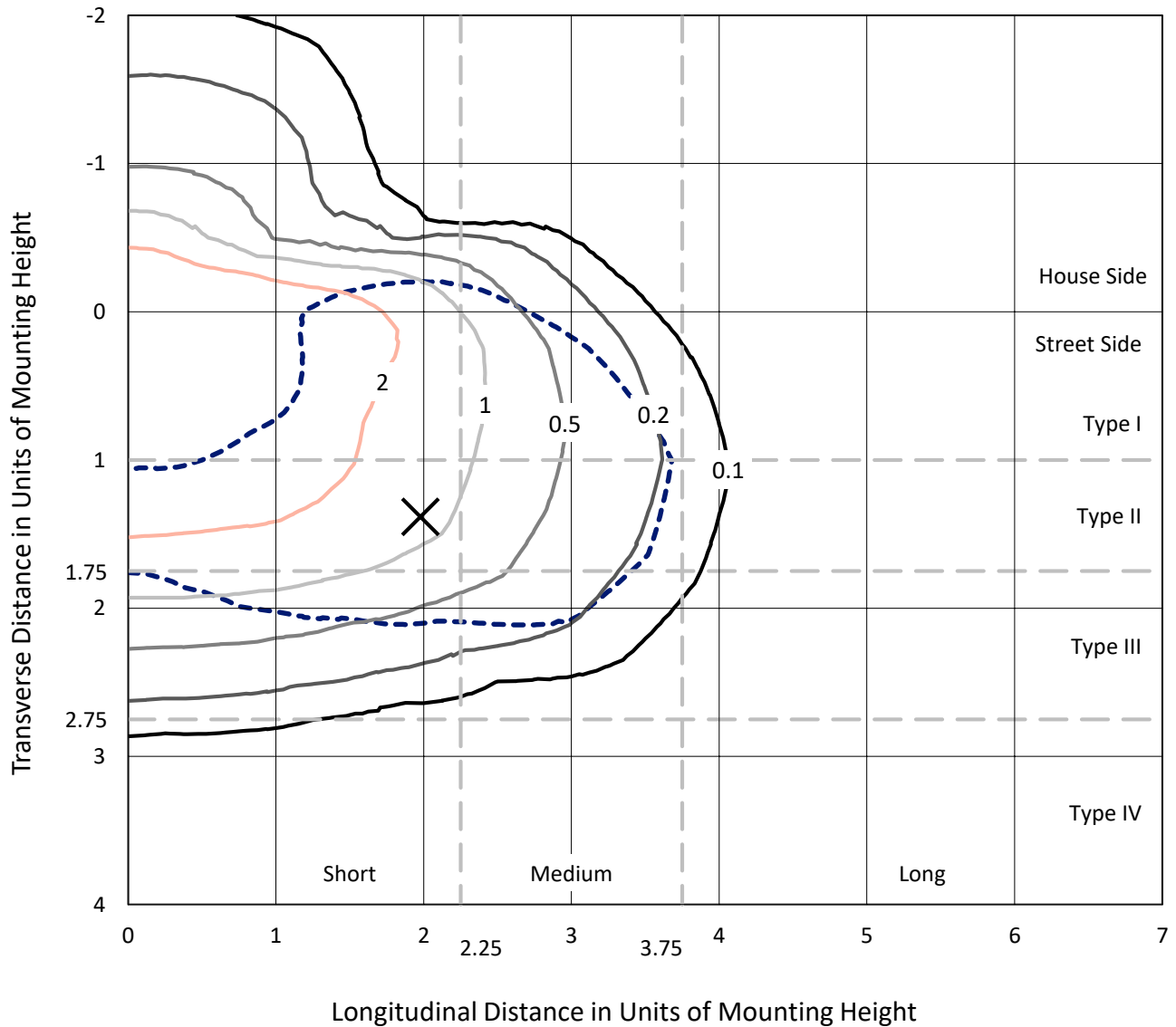
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

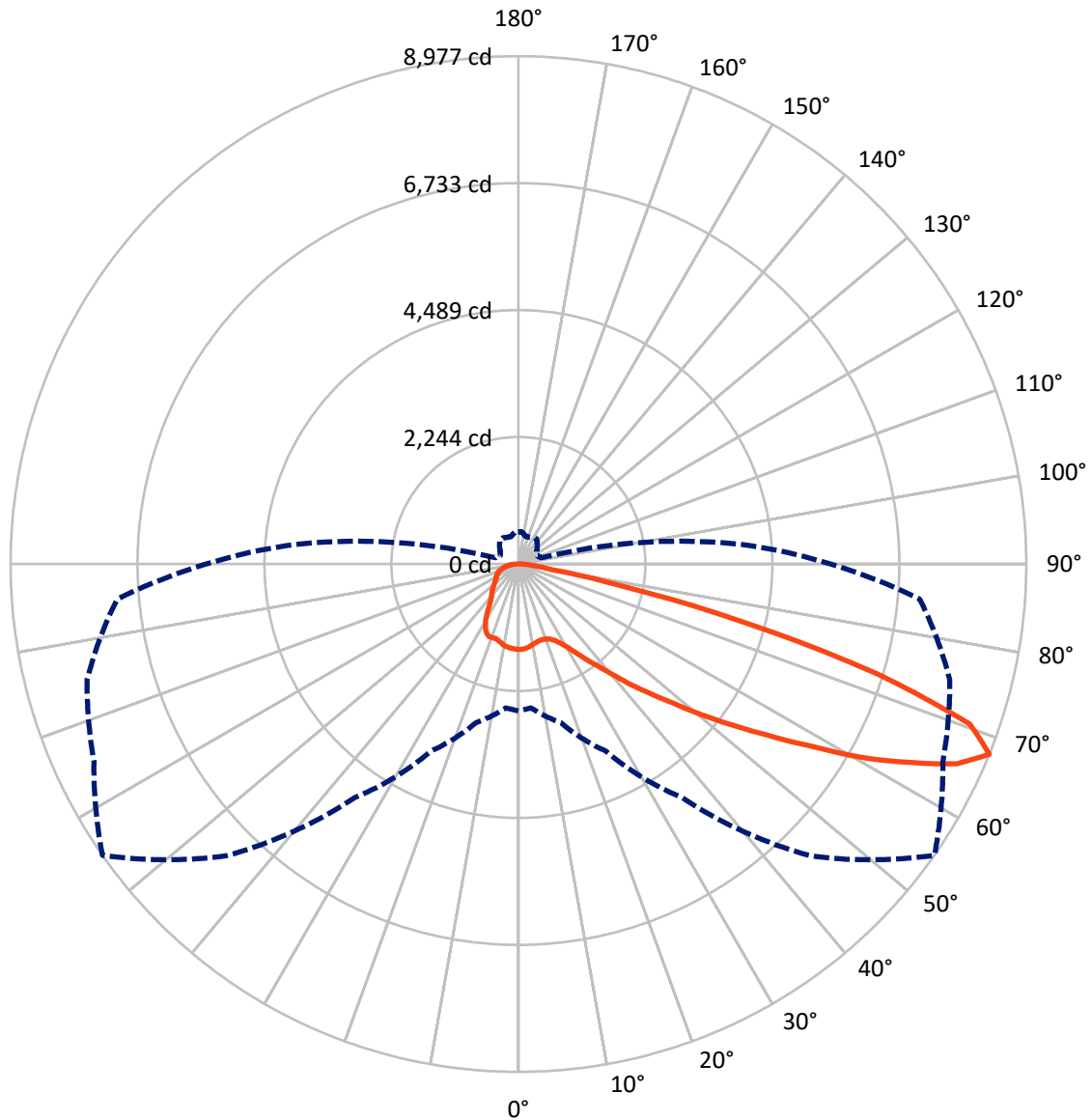
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 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
House Side	Lumens	2646.4	0.0	2646.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	9604.4	0.0	9604.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	12250.9	0.0	12250.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	1.2
10°-20°	399.3	3.3
20°-30°	669.0	5.5
30°-40°	1100.1	9.0
40°-50°	1851.7	15.1
50°-60°	2914.5	23.8
60°-70°	3478.1	28.4
70°-80°	1493.6	12.2
80°-90°	203.6	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°	12250.9	100.0
0°-180°	12250.9	100.0



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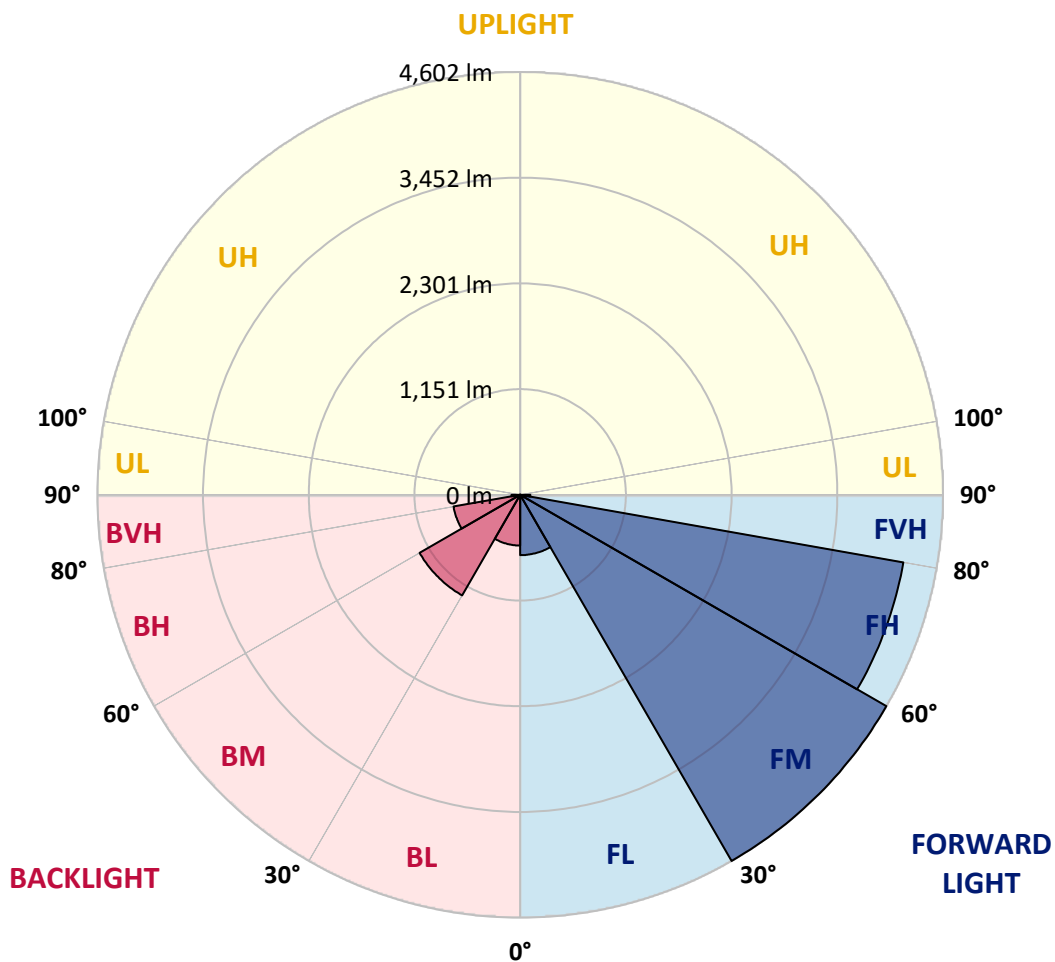
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	656.7	5.4			
FM (30°-60°)	4602.3	37.6			
FH (60°-80°)	4235.2	34.6			G2/5000
FVH (80°-90°)	110.2	0.9			G2/225
BL (0°-30°)	552.6	4.5	B2/1000		
BM (30°-60°)	1263.9	10.3	B2/2500		
BH (60°-80°)	736.5	6.0	B2/1000		G2/1000
BVH (80°-90°)	93.4	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°	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7
2.5°	1497.6	1498.2	1499.4	1504.1	1508.3	1507.1	1507.7	1505.4	1504.8	1501.2	1504.8
5°	1478.7	1480.5	1481.0	1488.8	1493.5	1494.7	1492.9	1489.9	1486.4	1482.9	1484.6
7.5°	1435.5	1440.2	1440.8	1451.5	1459.1	1469.3	1469.9	1470.4	1468.7	1466.3	1469.9
10°	1408.3	1409.5	1408.9	1416.6	1422.5	1433.8	1440.2	1451.5	1456.3	1457.4	1459.8
12.5°	1406.6	1405.3	1403.6	1403.6	1401.7	1406.6	1418.3	1434.4	1445.5	1449.1	1452.1
15°	1425.5	1424.9	1418.9	1410.0	1398.8	1395.3	1405.3	1423.1	1437.9	1445.5	1448.5
17.5°	1468.0	1464.6	1455.0	1434.9	1410.6	1401.2	1402.4	1417.2	1434.4	1444.4	1447.4
20°	1546.2	1546.2	1526.0	1488.2	1445.0	1422.5	1411.9	1420.7	1437.2	1450.9	1455.0
22.5°	1681.1	1682.2	1648.5	1586.4	1513.7	1465.7	1439.1	1437.2	1456.8	1472.2	1476.9
25°	1872.2	1867.5	1820.1	1731.3	1620.8	1541.5	1495.2	1484.6	1501.2	1518.4	1524.3
27.5°	2094.7	2077.5	2021.4	1914.2	1771.0	1655.0	1584.0	1566.9	1582.8	1602.4	1608.3
30°	2314.8	2297.0	2230.2	2113.0	1953.8	1807.1	1705.4	1677.5	1700.0	1727.9	1731.3
32.5°	2535.0	2535.0	2460.4	2323.7	2150.3	1988.8	1866.9	1833.7	1871.0	1904.7	1912.4
35°	2798.3	2799.4	2727.3	2562.7	2376.3	2205.4	2071.1	2046.7	2103.0	2126.6	2145.0
37.5°	3121.9	3128.4	3035.5	2836.7	2632.6	2452.7	2292.9	2259.8	2316.0	2380.5	2439.6
40°	3471.6	3479.9	3377.6	3132.6	2928.4	2740.3	2567.5	2507.8	2601.2	2724.3	2800.6
42.5°	3805.4	3847.9	3749.1	3497.1	3277.5	3082.9	2907.7	2820.8	2937.9	3123.7	3190.0
45°	4287.6	4318.4	4146.2	3917.8	3711.3	3493.5	3261.6	3169.8	3333.8	3568.1	3581.7
47.5°	4608.9	4585.9	4498.2	4356.2	4225.5	4021.9	3672.8	3572.2	3789.9	4065.7	3989.4
50°	4779.9	4787.0	4775.2	4783.5	4788.2	4660.4	4176.9	4039.1	4298.8	4632.0	4456.3
52.5°	4939.7	4892.4	4931.4	5125.5	5359.9	5312.5	4725.5	4581.7	4844.4	5260.4	4949.8
55°	4936.1	4863.9	4991.2	5333.8	5842.1	5896.5	5341.4	5175.8	5421.3	5934.3	5472.8
57.5°	4761.6	4765.1	4961.0	5409.5	6178.2	6445.6	6056.3	5807.7	6033.2	6617.3	5950.3
60°	4521.3	4553.9	4836.1	5397.1	6447.4	6895.9	6933.2	6488.8	6632.6	7237.9	6345.7
62.5°	4133.7	4168.1	4557.5	5268.1	6406.5	7329.6	7726.1	7261.6	7259.3	7614.2	6461.6
65°	3522.5	3512.5	3921.4	4785.9	6064.0	7650.3	8513.7	7929.6	7731.5	7620.2	6228.4
67.5°	2597.7	2552.7	2903.5	3645.0	5040.3	7291.2	8977.0	8277.6	7892.4	7119.0	5516.1
70°	1347.9	1302.9	1587.0	2128.5	3314.9	5690.6	8464.0	8097.7	7536.8	5967.5	4321.4
72.5°	576.3	568.7	684.0	933.7	1603.6	3282.2	6636.7	7009.0	6466.9	4446.2	2971.1
75°	387.6	385.2	428.4	508.9	721.3	1332.0	4153.3	4975.2	4731.5	2756.9	1671.0
77.5°	304.1	301.2	326.6	365.7	467.5	525.5	1843.3	2671.0	2472.2	1200.0	731.4
80°	237.8	235.5	251.4	272.8	336.1	331.3	606.5	1062.7	822.5	459.8	355.6
82.5°	187.6	187.6	200.6	201.2	238.4	226.1	316.6	468.1	410.6	268.0	217.8
85°	171.5	171.5	185.3	150.3	155.6	142.6	196.4	277.5	260.3	110.1	94.7
87.5°	86.4	84.0	155.6	133.2	84.6	75.7	95.9	134.3	144.3	61.0	47.4
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°	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7
2.5°	1503.5	1503.0	1504.1	1504.8	1509.5	1516.0	1519.0	1523.1	1525.4	1524.3
5°	1485.8	1487.0	1491.8	1495.2	1503.5	1514.2	1520.1	1524.9	1529.0	1527.3
7.5°	1471.0	1474.0	1481.0	1484.0	1488.8	1491.8	1491.2	1492.9	1496.5	1492.3
10°	1462.7	1466.3	1471.6	1467.4	1456.3	1440.2	1425.5	1417.8	1420.2	1417.2
12.5°	1454.4	1459.1	1455.0	1435.5	1404.2	1383.4	1372.2	1373.4	1378.7	1379.9
15°	1449.7	1451.5	1433.8	1397.0	1365.1	1362.2	1368.1	1366.9	1367.5	1367.5
17.5°	1449.7	1445.0	1411.9	1375.2	1361.5	1356.2	1337.9	1314.8	1304.8	1301.2
20°	1457.4	1445.0	1404.7	1380.5	1350.9	1305.4	1256.8	1214.2	1195.3	1190.0
22.5°	1480.5	1459.1	1424.9	1382.8	1298.8	1222.5	1145.6	1094.7	1060.4	1054.5
25°	1527.3	1503.5	1464.6	1351.5	1216.0	1107.1	1019.6	962.7	928.4	923.7
27.5°	1608.9	1593.6	1485.8	1282.3	1105.9	989.4	908.3	864.5	839.0	837.3
30°	1732.0	1724.3	1475.2	1179.9	970.5	875.1	836.1	810.7	791.8	791.2
32.5°	1928.5	1866.3	1440.2	1055.1	846.8	794.1	778.2	762.7	748.0	748.0
35°	2181.1	1981.0	1374.0	921.3	771.6	749.1	729.0	704.7	685.2	684.0
37.5°	2478.1	2052.0	1255.1	813.7	736.1	718.9	689.4	653.3	619.0	613.1
40°	2778.1	2073.4	1087.6	747.4	713.6	688.8	652.6	610.1	576.9	575.1
42.5°	3053.3	2032.6	910.0	701.7	691.1	658.0	620.1	582.3	556.2	555.7
45°	3284.1	1926.6	761.0	658.6	667.5	630.1	596.5	565.7	545.5	541.4
47.5°	3501.3	1777.0	656.2	613.1	643.7	614.8	586.4	557.4	537.9	534.9
50°	3753.3	1615.4	582.9	568.7	623.1	609.5	594.6	564.5	531.9	528.5
52.5°	4058.7	1475.7	525.5	529.6	607.1	616.5	616.0	584.6	527.8	523.0
55°	4399.4	1320.7	482.2	497.7	600.6	629.6	621.3	603.5	531.3	524.3
57.5°	4734.9	1139.7	452.0	473.4	591.2	628.4	595.9	570.4	539.6	529.6
60°	4986.5	896.4	429.0	452.0	570.4	608.9	568.0	534.3	537.9	530.2
62.5°	5003.0	692.9	401.2	433.7	539.1	589.3	549.7	518.3	545.5	538.5
65°	4708.9	523.6	374.6	411.8	505.3	576.9	531.9	509.4	561.5	553.8
67.5°	3964.5	421.4	352.1	389.3	471.6	550.9	516.0	501.1	575.7	562.1
70°	2862.1	359.2	330.2	362.1	441.4	521.3	501.8	486.4	537.3	516.0
72.5°	1762.1	311.3	305.4	326.0	418.4	490.5	480.5	458.6	484.1	466.9
75°	879.8	269.9	277.5	290.5	385.8	455.6	445.0	423.1	426.7	423.1
77.5°	421.4	230.8	245.0	255.0	343.8	415.9	404.8	382.3	378.1	378.7
80°	266.9	192.9	206.5	213.6	307.1	369.8	358.5	336.1	383.4	355.6
82.5°	166.8	156.8	160.4	173.4	267.5	321.9	307.1	286.9	345.6	273.3
85°	92.3	109.5	114.2	125.4	205.9	269.2	254.4	229.0	205.3	201.7
87.5°	55.0	65.1	66.9	75.2	138.5	194.7	172.2	163.4	135.5	134.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)