

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: P527878

Luminaire Tested: **GALN-SA2D-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527878  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-830-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10863 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

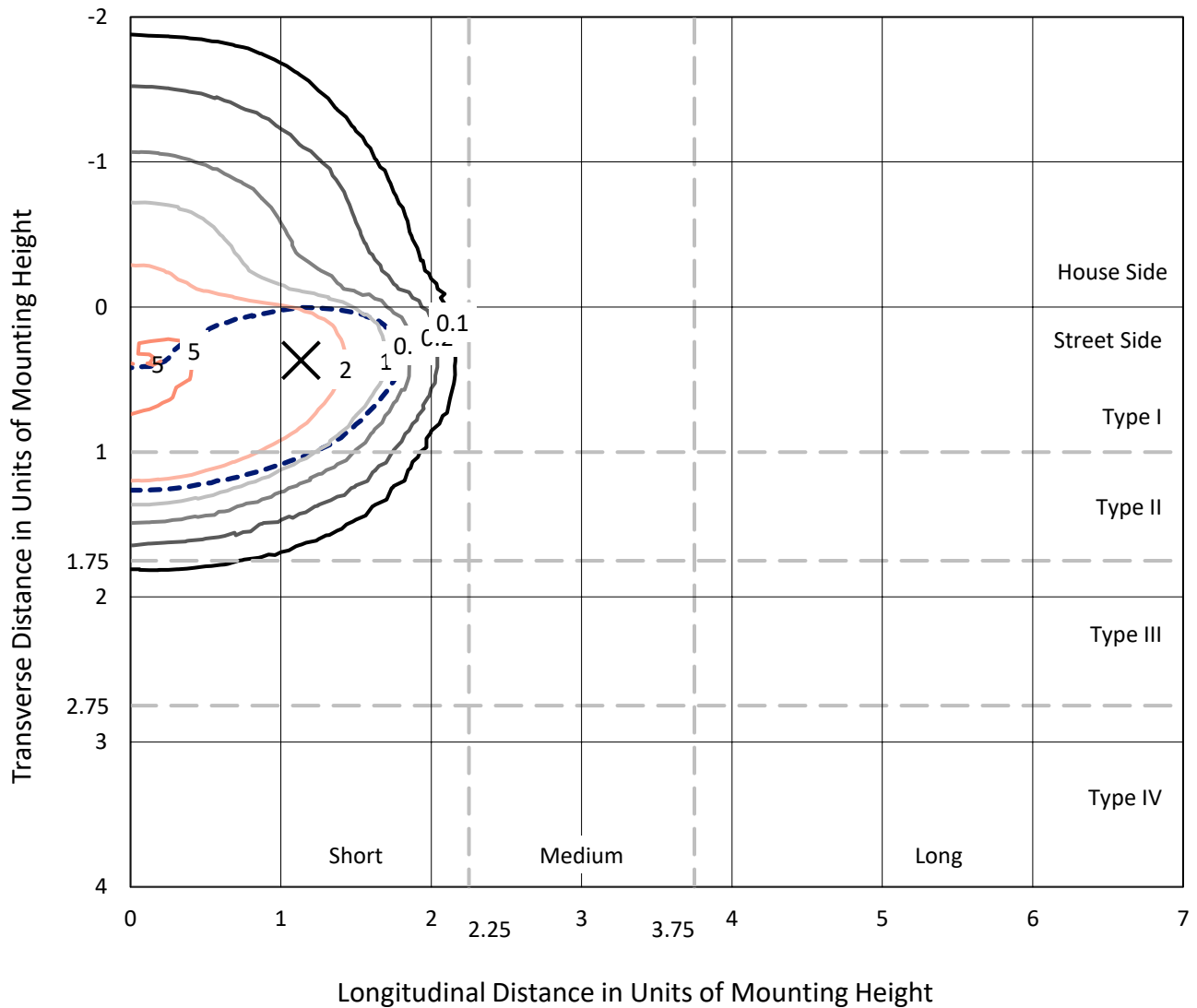
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P527878  
 CATALOG NUMBER: GALN-SA2D-830-U-T2R-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

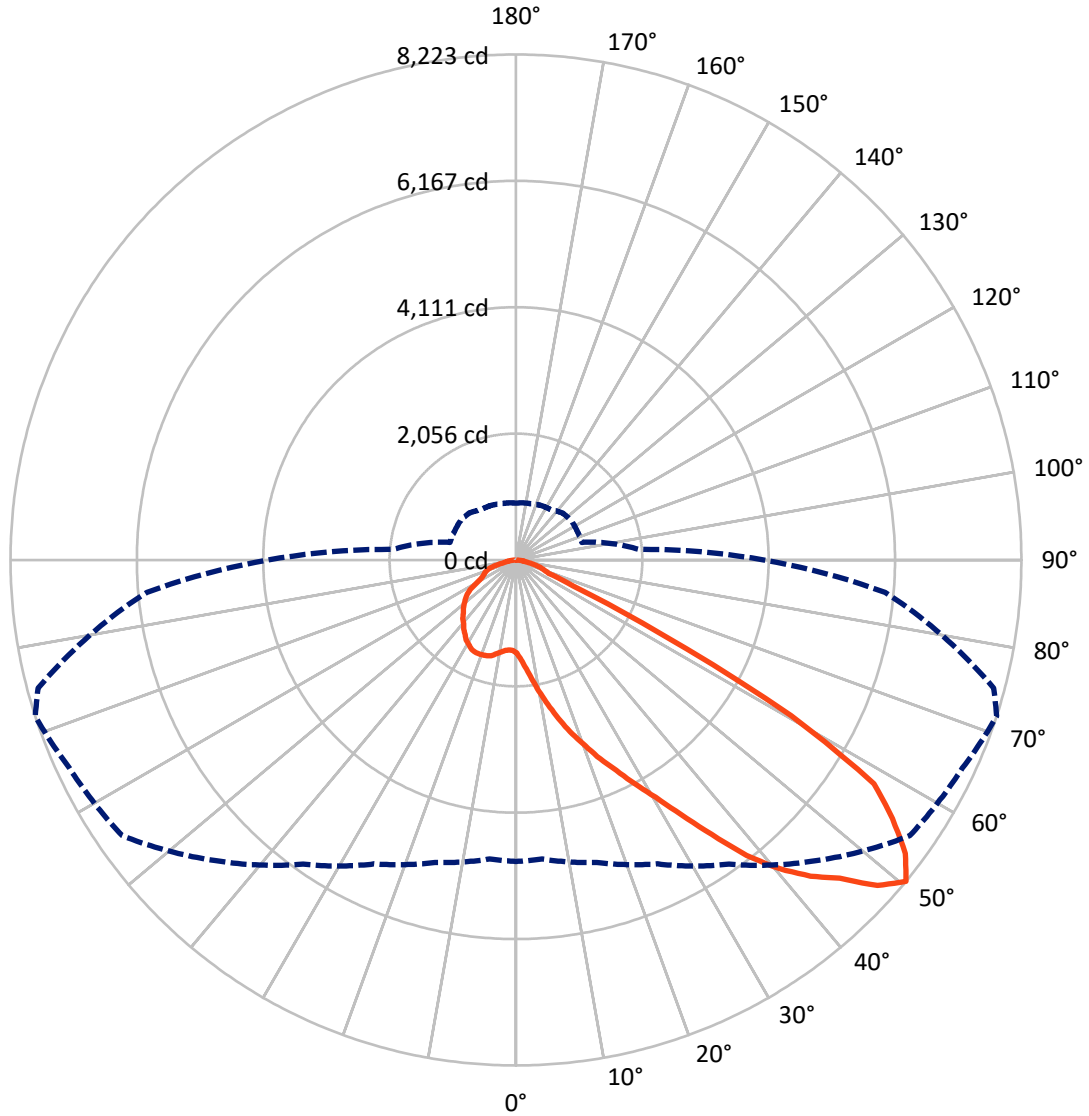
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P527878  
CATALOG NUMBER: GALN-SA2D-830-U-T2R-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P527878  
 CATALOG NUMBER: GALN-SA2D-830-U-T2R-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2488.8	0.0	2488.8
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	8374.2	0.0	8374.2
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	10863.0	0.0	10863.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.9	1.6
10°-20°	665.0	6.1
20°-30°	1289.3	11.9
30°-40°	2135.9	19.7
40°-50°	2988.6	27.5
50°-60°	2521.3	23.2
60°-70°	768.5	7.1
70°-80°	269.6	2.5
80°-90°	46.9	0.4
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°	10863.0	100.0
0°-180°	10863.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P527878

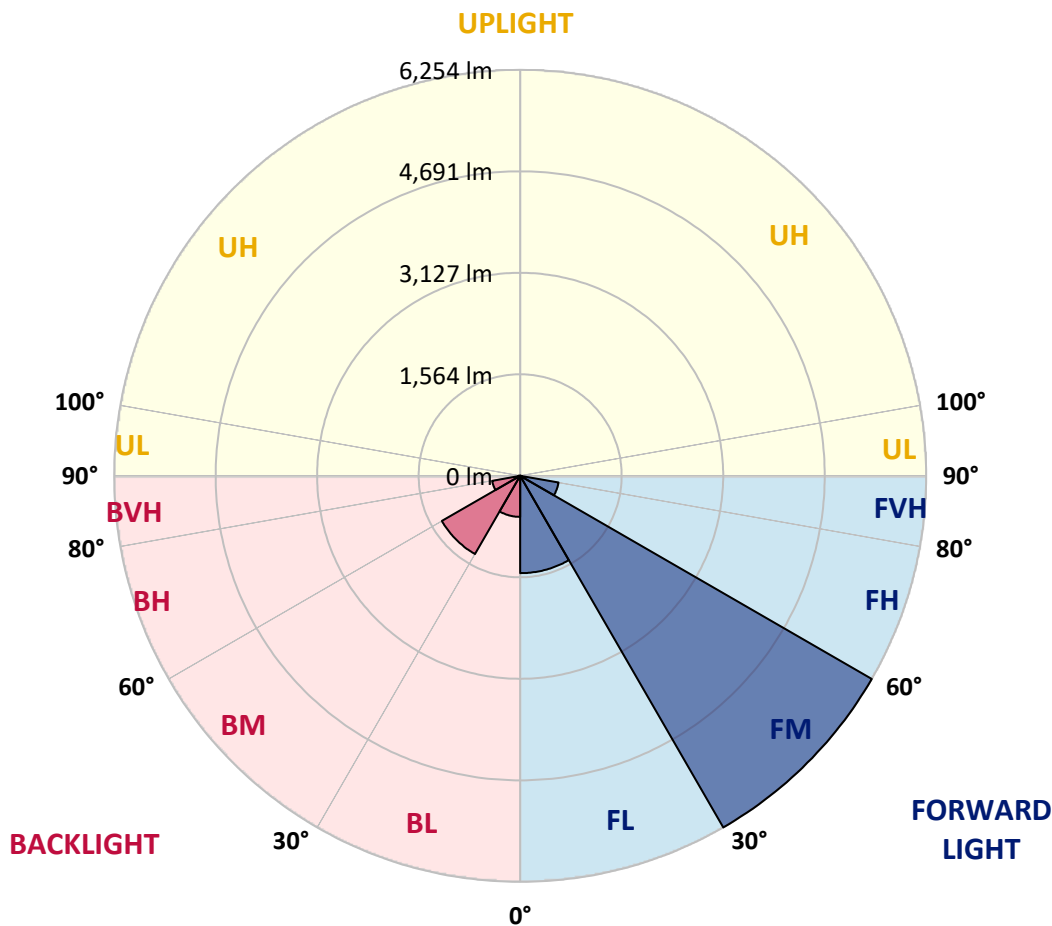
CATALOG NUMBER: GALN-SA2D-830-U-T2R-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1499.5	13.8			
FM (30°-60°)	6254.1	57.6			
FH (60°-80°)	599.6	5.5			G0/660
FVH (80°-90°)	21.0	0.2			G1/100
BL (0°-30°)	632.7	5.8	B2/1000		
BM (30°-60°)	1391.8	12.8	B2/2500		
BH (60°-80°)	438.5	4.0	B1/500		G1/500
BVH (80°-90°)	25.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





REPORT NUMBER: P527878

CATALOG NUMBER: GALN-SA2D-830-U-T2R-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1512.2	1512.2	1512.2	1512.2	1512.2	1512.2	1512.2	1512.2	1512.2	1512.2	1512.2
2.5°	1945.1	1933.0	1896.7	1884.6	1841.6	1763.6	1736.7	1657.4	1623.8	1592.9	1556.6
5°	2459.9	2403.4	2399.4	2330.8	2231.4	2173.6	2001.5	1885.9	1779.7	1725.9	1626.5
7.5°	2787.9	2789.2	2789.2	2732.8	2653.4	2506.9	2352.3	2144.0	1984.0	1904.7	1735.4
10°	3099.7	3072.8	3058.0	3052.7	2998.9	2856.4	2691.1	2433.0	2213.9	2121.1	1817.4
12.5°	3320.2	3297.3	3330.9	3313.4	3274.5	3181.7	3025.8	2731.4	2457.2	2332.2	1949.1
15°	3425.0	3441.1	3468.0	3516.4	3498.9	3464.0	3291.9	3037.9	2719.3	2578.2	2066.0
17.5°	3586.3	3542.0	3574.2	3634.7	3683.1	3667.0	3568.8	3259.7	2978.7	2805.3	2223.3
20°	3699.2	3673.7	3689.8	3759.7	3796.0	3887.4	3836.3	3550.0	3227.4	3044.6	2408.8
22.5°	4021.8	3984.2	3931.8	3942.5	3956.0	4020.5	4032.6	3868.6	3516.4	3322.9	2584.9
25°	4419.7	4384.8	4322.9	4259.8	4220.8	4208.7	4250.4	4118.6	3793.3	3593.0	2774.4
27.5°	4857.9	4798.8	4759.8	4629.4	4524.6	4508.4	4488.3	4417.0	4121.3	3904.9	2988.2
30°	5284.0	5237.0	5184.6	4976.2	4867.3	4849.9	4750.4	4770.6	4477.5	4236.9	3230.1
32.5°	5606.6	5610.7	5491.0	5333.8	5231.6	5138.9	5102.6	5160.4	4934.5	4741.0	3500.3
35°	5867.4	5879.5	5765.3	5622.8	5512.6	5577.1	5560.9	5587.8	5480.3	5243.7	3814.8
37.5°	6121.5	6061.0	5938.7	5870.1	5812.3	5918.5	6055.6	6078.5	6098.6	5820.4	4180.5
40°	6163.1	6168.5	6097.3	6145.7	6073.1	6233.0	6551.6	6522.0	6604.0	6360.7	4577.0
42.5°	6104.0	6116.1	6144.3	6212.9	6387.6	6579.8	7053.0	6932.0	7031.5	6815.1	4962.8
45°	6007.2	5957.5	5992.4	6253.2	6555.7	6983.1	7511.4	7417.3	7385.0	7203.6	5422.5
47.5°	5544.8	5595.9	5704.8	6026.0	6480.4	7053.0	7836.7	7815.2	7911.9	7784.2	5840.5
50°	4903.6	4883.5	5093.2	5454.8	6040.8	6915.9	7819.2	8014.1	8222.5	8045.0	6027.4
52.5°	3672.3	3779.9	3960.0	4409.0	5245.1	6168.5	7437.4	7762.7	7932.1	7894.5	5876.8
55°	2321.4	2353.7	2462.6	2996.2	3749.0	4950.7	6375.5	7129.6	7432.1	7573.2	5738.4
57.5°	1127.8	1067.3	1200.4	1629.2	2165.5	3329.6	4917.1	6210.2	6867.5	7122.9	5437.3
60°	588.8	611.6	664.0	817.3	1119.7	1728.6	3064.8	4138.8	5142.9	5535.4	4121.3
62.5°	487.9	496.0	531.0	607.6	744.7	994.7	1564.6	2017.6	2622.5	2976.1	2344.3
65°	414.0	418.0	455.7	506.8	594.1	700.3	805.2	842.8	1020.2	1047.1	833.4
67.5°	345.5	349.5	389.8	438.2	494.7	522.9	549.8	547.1	567.3	559.2	557.8
70°	266.2	270.2	311.9	362.9	391.2	375.0	458.4	477.2	485.3	492.0	502.7
72.5°	192.2	200.3	232.5	268.8	254.1	291.7	377.7	405.9	416.7	420.7	434.2
75°	139.8	142.5	150.6	139.8	161.3	203.0	266.2	301.1	314.5	318.6	338.7
77.5°	61.8	63.2	64.5	80.7	103.5	126.4	158.6	186.8	205.7	211.0	216.4
80°	32.3	33.6	41.7	55.1	73.9	92.7	115.6	131.7	143.8	145.2	150.6
82.5°	20.2	21.5	29.6	39.0	52.4	68.6	84.7	98.1	107.5	108.9	110.2
85°	9.4	12.1	17.5	24.2	34.9	44.4	45.7	39.0	41.7	43.0	40.3
87.5°	2.7	4.0	5.4	4.0	5.4	5.4	6.7	8.1	8.1	8.1	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P527878

CATALOG NUMBER: GALN-SA2D-830-U-T2R-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1512.2	1512.2	1512.2	1512.2	1512.2	1512.2	1512.2	1512.2	1512.2	1512.2	1512.2
2.5°	1536.4	1524.3	1477.3	1459.8	1414.1	1422.2	1398.0	1396.6	1391.2	1389.9	1388.6
5°	1574.1	1536.4	1480.0	1436.9	1411.4	1408.7	1391.2	1391.2	1396.6	1400.7	1391.2
7.5°	1635.9	1592.9	1497.4	1457.1	1434.3	1430.2	1418.1	1408.7	1420.8	1416.8	1406.0
10°	1707.1	1631.9	1531.0	1496.1	1458.5	1449.0	1449.0	1453.1	1432.9	1439.6	1428.9
12.5°	1786.4	1685.6	1574.1	1533.7	1489.4	1484.0	1481.3	1451.7	1462.5	1457.1	1430.2
15°	1887.3	1747.5	1629.2	1560.6	1523.0	1498.8	1463.8	1458.5	1451.7	1438.3	1426.2
17.5°	1996.1	1814.7	1654.7	1568.7	1512.2	1494.7	1467.9	1439.6	1419.5	1422.2	1412.8
20°	2088.9	1876.5	1664.1	1576.7	1504.2	1470.6	1428.9	1411.4	1389.9	1388.6	1387.2
22.5°	2199.1	1959.8	1677.6	1555.2	1480.0	1445.0	1416.8	1385.9	1371.1	1352.3	1361.7
25°	2330.8	1992.1	1680.2	1543.1	1462.5	1400.7	1385.9	1352.3	1346.9	1320.0	1325.4
27.5°	2426.3	2009.6	1658.7	1505.5	1422.2	1375.1	1348.2	1324.0	1314.6	1294.5	1289.1
30°	2554.0	2036.5	1613.0	1458.5	1381.8	1329.4	1313.3	1307.9	1281.0	1259.5	1256.8
32.5°	2699.1	2053.9	1583.5	1410.1	1340.2	1299.8	1307.9	1282.4	1248.8	1229.9	1224.6
35°	2814.7	2060.7	1509.5	1355.0	1311.9	1286.4	1277.0	1271.6	1223.2	1205.7	1192.3
37.5°	2990.8	2045.9	1447.7	1316.0	1281.0	1271.6	1263.5	1227.3	1172.1	1146.6	1127.8
40°	3196.5	2041.8	1368.4	1260.9	1251.4	1262.2	1238.0	1181.5	1104.9	1076.7	1063.3
42.5°	3394.1	2070.1	1318.7	1231.3	1219.2	1223.2	1189.6	1104.9	1067.3	1051.2	1029.7
45°	3724.8	2129.2	1236.7	1185.6	1180.2	1177.5	1137.2	1048.5	1027.0	1006.8	1002.8
47.5°	4023.2	2090.2	1184.2	1138.5	1143.9	1129.1	1043.1	1014.9	990.7	970.5	963.8
50°	4040.7	1997.5	1110.3	1102.2	1103.6	1078.0	996.1	977.2	946.3	932.9	923.5
52.5°	3949.3	1845.6	1041.8	1044.4	1048.5	1006.8	938.2	924.8	899.3	880.4	875.1
55°	3692.5	1609.0	974.5	985.3	996.1	916.7	895.2	861.6	841.5	814.6	815.9
57.5°	3253.0	1295.8	880.4	897.9	920.8	833.4	817.3	775.6	746.0	724.5	721.8
60°	2180.3	922.1	739.3	746.0	797.1	762.2	760.8	719.1	678.8	660.0	649.2
62.5°	1286.4	704.4	638.5	631.8	630.4	650.6	684.2	669.4	617.0	580.7	591.4
65°	673.4	608.9	594.1	571.3	557.8	552.5	578.0	584.7	549.8	510.8	508.1
67.5°	565.9	565.9	553.8	545.7	526.9	504.1	487.9	466.4	461.1	450.3	436.9
70°	514.8	528.3	524.2	505.4	489.3	463.7	422.1	387.1	353.5	341.4	349.5
72.5°	449.0	462.4	462.4	453.0	431.5	392.5	352.2	311.9	283.6	262.1	259.4
75°	345.5	352.2	368.3	357.6	329.3	305.1	263.5	221.8	194.9	174.7	170.7
77.5°	220.4	231.2	231.2	229.9	209.7	186.8	160.0	130.4	110.2	95.4	91.4
80°	146.5	153.2	158.6	153.2	139.8	122.3	102.2	82.0	67.2	55.1	52.4
82.5°	107.5	115.6	119.6	114.3	100.8	87.4	72.6	57.8	43.0	33.6	30.9
85°	41.7	43.0	48.4	57.8	56.5	55.1	44.4	32.3	24.2	17.5	16.1
87.5°	10.8	9.4	10.8	10.8	9.4	8.1	8.1	8.1	8.1	4.0	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)