

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: P647792

Luminaire Tested: **GALN-SA2A-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6139.4 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

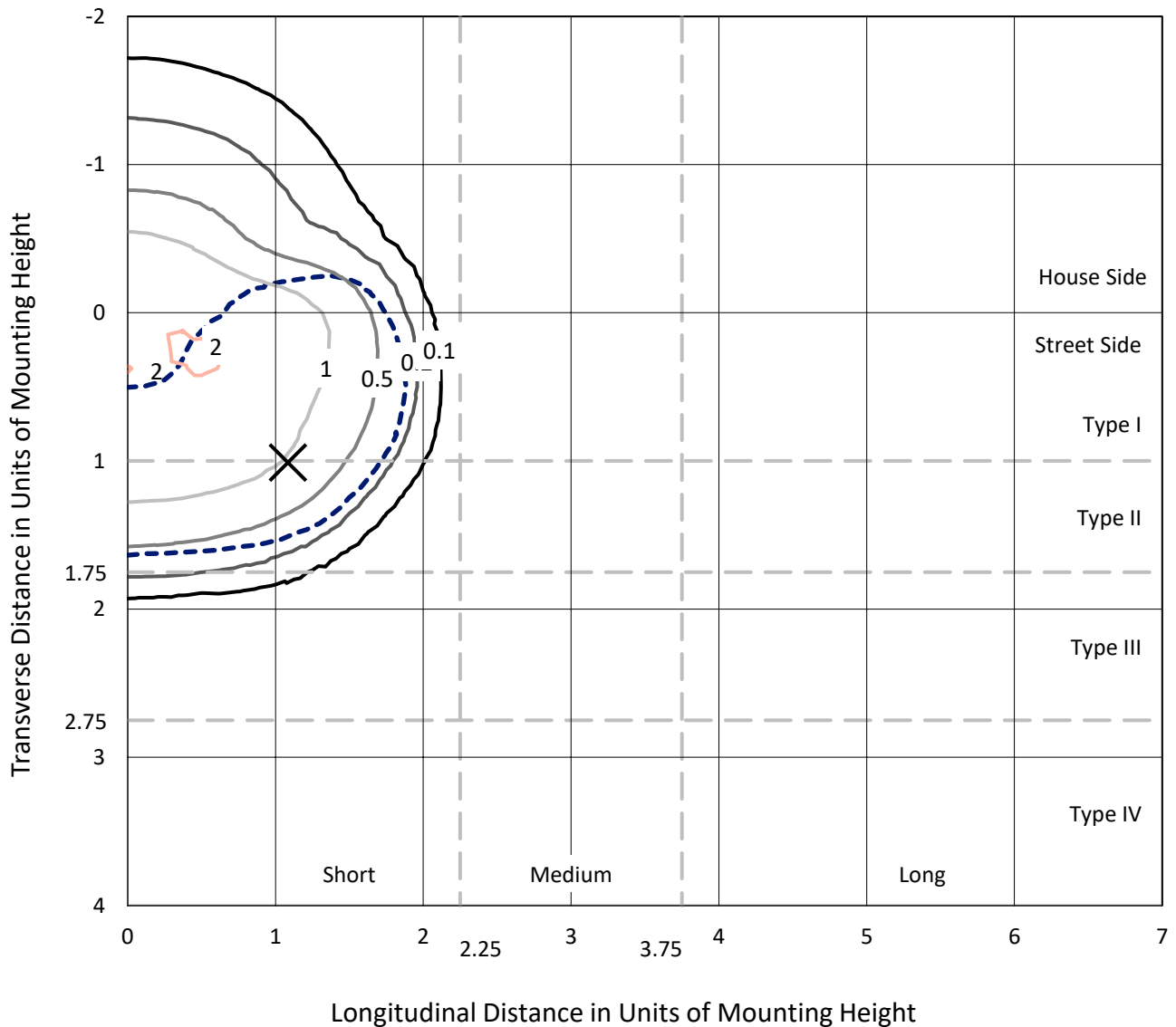
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

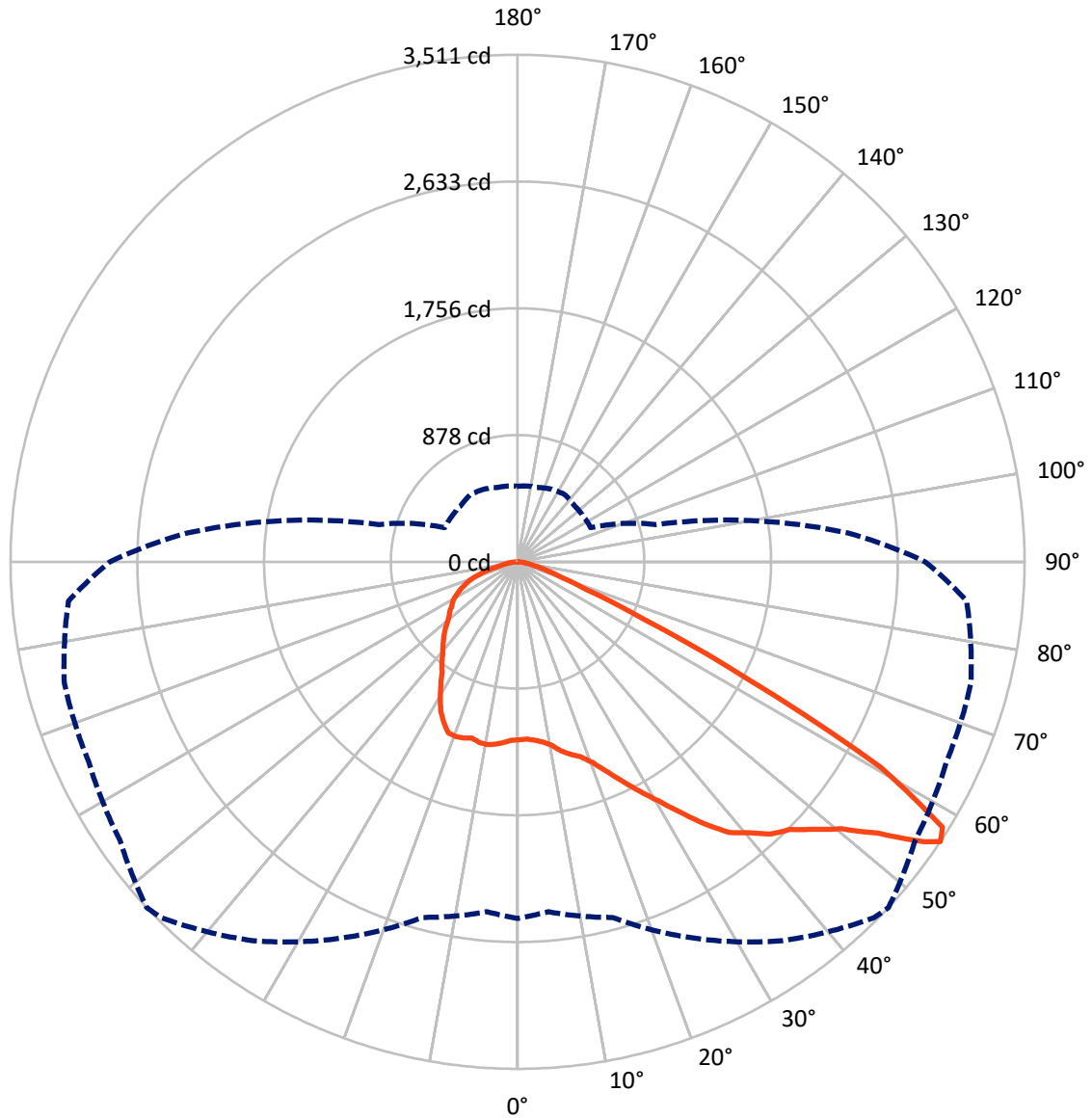
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1945.5	0.0	1945.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	4193.9	0.0	4193.9
	% Fixture	68.3	0.0	68.3
Total	Lumens	6139.4	0.0	6139.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	2.0
10°-20°	379.0	6.2
20°-30°	670.1	10.9
30°-40°	1006.4	16.4
40°-50°	1381.2	22.5
50°-60°	1645.5	26.8
60°-70°	704.2	11.5
70°-80°	199.3	3.2
80°-90°	33.5	0.5
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°	6139.4	100.0
0°-180°	6139.4	100.0

Coefficient of Utilization

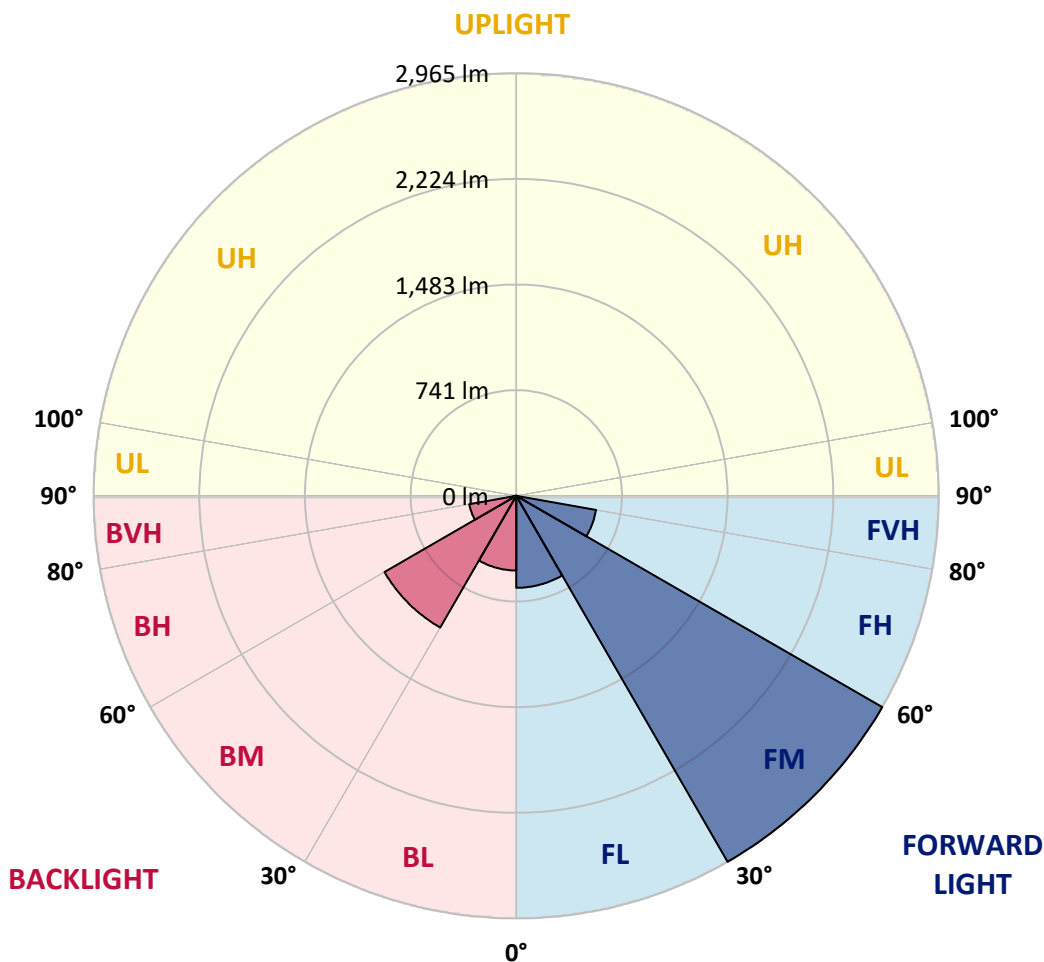


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	645.5	10.5			
FM (30°-60°)	2965.5	48.3			
FH (60°-80°)	568.7	9.3			G0/660
FVH (80°-90°)	14.2	0.2			G1/100
BL (0°-30°)	523.8	8.5	B2/1000		
BM (30°-60°)	1067.7	17.4	B2/2500		
BH (60°-80°)	334.7	5.5	B1/500		G1/500
BVH (80°-90°)	19.3	0.3			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2
2.5°	1228.5	1226.2	1224.6	1237.1	1232.4	1233.2	1228.5	1233.2	1236.4	1229.3	1239.5
5°	1226.2	1233.2	1227.0	1230.9	1241.1	1237.9	1241.1	1250.5	1248.1	1245.8	1242.6
7.5°	1248.1	1248.9	1253.6	1255.1	1258.3	1255.1	1259.8	1268.5	1266.1	1252.8	1254.4
10°	1279.4	1281.0	1281.8	1290.4	1295.9	1296.6	1291.2	1283.3	1282.6	1300.6	1288.0
12.5°	1315.4	1311.5	1320.9	1324.1	1330.3	1337.4	1344.4	1328.0	1338.1	1338.9	1324.1
15°	1367.9	1371.8	1360.9	1360.9	1363.2	1364.0	1383.6	1375.7	1374.2	1365.6	1371.8
17.5°	1446.2	1419.6	1418.8	1407.8	1406.3	1412.5	1419.6	1425.8	1447.0	1429.8	1396.1
20°	1503.4	1509.6	1486.9	1473.6	1476.0	1490.0	1483.0	1511.2	1526.1	1497.9	1465.0
22.5°	1604.4	1583.2	1588.7	1559.0	1561.3	1576.2	1575.4	1604.4	1613.0	1568.3	1520.6
25°	1672.5	1667.0	1671.7	1648.2	1651.3	1663.1	1681.9	1729.6	1715.6	1666.2	1555.8
27.5°	1771.9	1761.0	1757.1	1748.4	1745.3	1776.6	1798.6	1849.4	1839.3	1767.2	1618.5
30°	1873.7	1866.7	1870.6	1835.4	1847.9	1914.4	1920.7	1990.4	1985.7	1858.8	1688.1
32.5°	1944.2	1948.1	1955.2	1935.6	1991.2	2044.4	2065.6	2144.6	2148.6	2016.2	1822.8
35°	2057.7	2044.4	2048.3	2071.0	2096.9	2194.0	2228.4	2280.9	2313.8	2181.4	1952.0
37.5°	2129.0	2143.1	2126.6	2162.6	2230.0	2346.7	2378.0	2432.0	2466.5	2344.3	2128.2
40°	2240.2	2217.5	2229.2	2255.0	2323.9	2475.8	2467.2	2522.8	2533.8	2482.9	2292.6
42.5°	2360.0	2349.0	2332.6	2391.3	2449.2	2559.6	2576.9	2551.0	2606.6	2618.4	2527.5
45°	2503.3	2516.6	2518.9	2520.5	2571.4	2667.7	2644.2	2621.5	2685.7	2771.0	2673.2
47.5°	2636.4	2594.1	2624.6	2666.9	2738.9	2739.7	2767.1	2713.1	2781.2	2857.2	2804.7
50°	2681.0	2660.6	2701.4	2781.2	2892.4	2904.1	2907.3	2830.5	2865.8	2926.1	2850.1
52.5°	2663.8	2656.7	2760.9	2884.6	3047.4	3106.9	3122.6	3027.9	3047.4	3020.0	2950.3
55°	2581.6	2602.7	2707.6	2959.7	3209.5	3393.6	3423.4	3303.6	3179.0	3200.1	3123.4
56°	2468.8	2432.0	2549.4	2874.4	3202.5	3486.8	3511.1	3361.5	3276.9	3249.5	3121.8
57.5°	2094.5	2046.8	2201.0	2586.2	3024.7	3451.5	3469.6	3385.8	3260.4	3204.8	2894.0
60°	1226.2	1249.7	1445.4	1783.7	2333.3	2829.8	2890.1	2951.1	2867.3	2618.4	2154.0
62.5°	591.9	577.1	717.2	1022.6	1421.9	1806.4	1788.4	1959.8	2053.8	1860.4	1360.1
65°	310.1	308.5	391.5	558.3	781.4	949.0	965.4	1057.8	1187.0	958.4	690.6
67.5°	227.9	234.1	275.6	392.3	502.7	512.9	510.5	556.7	569.2	481.5	424.4
70°	178.5	181.7	212.2	298.3	374.3	335.1	328.1	333.6	370.4	386.0	367.2
72.5°	129.2	132.3	158.2	201.2	234.1	228.6	233.3	263.9	309.3	325.7	306.2
75°	86.1	88.5	102.6	122.9	138.6	149.6	158.2	193.4	235.7	245.1	235.7
77.5°	59.5	61.9	71.3	86.9	88.5	95.5	98.7	115.1	140.9	152.7	146.4
80°	33.7	33.7	38.4	44.6	54.8	64.2	65.8	79.1	90.8	98.7	100.2
82.5°	15.7	16.4	20.4	27.4	36.0	44.6	46.2	54.8	63.4	71.3	73.6
85°	7.8	8.6	11.7	16.4	21.9	26.6	25.8	26.6	28.2	26.6	27.4
87.5°	2.3	2.3	3.1	3.9	3.1	3.9	3.9	4.7	5.5	6.3	7.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2	1233.2
2.5°	1240.3	1242.6	1227.0	1241.8	1236.4	1235.6	1246.5	1245.0	1248.9	1247.3	1237.9
5°	1241.1	1235.6	1252.0	1237.1	1244.2	1259.1	1248.9	1272.4	1260.6	1268.5	1251.2
7.5°	1265.3	1266.9	1263.8	1270.0	1266.9	1273.9	1268.5	1273.9	1264.5	1265.3	1281.0
10°	1286.5	1281.8	1287.3	1279.4	1284.9	1282.6	1270.0	1266.1	1269.2	1265.3	1275.5
12.5°	1325.6	1317.0	1313.1	1303.7	1297.4	1273.9	1254.4	1243.4	1258.3	1260.6	1255.9
15°	1365.6	1366.3	1348.3	1327.2	1288.0	1252.8	1257.5	1261.4	1261.4	1267.7	1255.9
17.5°	1390.6	1390.6	1374.2	1331.9	1292.0	1271.6	1266.9	1254.4	1243.4	1241.8	1241.1
20°	1434.5	1421.1	1383.6	1331.1	1290.4	1281.0	1245.8	1216.0	1193.3	1185.5	1184.7
22.5°	1484.6	1450.9	1398.4	1332.7	1288.0	1274.7	1209.0	1164.3	1123.6	1106.4	1108.7
25°	1530.8	1476.7	1407.1	1325.6	1279.4	1215.2	1141.6	1079.8	1037.5	1023.4	1016.3
27.5°	1562.9	1504.1	1407.1	1331.9	1247.3	1148.7	1073.5	994.4	957.6	948.2	949.8
30°	1605.9	1538.6	1431.3	1318.6	1183.1	1062.5	972.5	920.8	898.9	891.1	896.5
32.5°	1706.9	1628.6	1465.0	1286.5	1107.2	976.4	903.6	874.6	842.5	826.8	821.4
35°	1816.6	1714.0	1497.9	1232.4	1021.8	898.1	852.7	826.1	787.7	770.5	773.6
37.5°	1971.6	1823.6	1500.2	1143.2	929.4	854.3	812.8	771.3	739.9	713.3	705.5
40°	2180.7	1973.2	1494.7	1049.2	855.0	802.6	772.0	720.4	685.1	666.3	670.2
42.5°	2364.7	2148.6	1472.0	942.7	787.7	767.3	732.9	682.0	647.5	628.0	626.4
45°	2519.7	2277.7	1429.0	851.9	731.3	728.2	688.3	649.1	621.7	603.7	611.5
47.5°	2663.0	2381.9	1364.0	761.1	679.6	685.9	647.5	623.3	606.0	589.6	588.8
50°	2714.7	2380.3	1306.8	685.9	638.1	635.0	633.4	607.6	589.6	575.5	581.8
52.5°	2800.8	2406.9	1245.0	634.2	600.6	601.3	606.8	588.0	567.7	559.1	566.9
55°	2924.5	2410.9	1108.7	573.9	569.2	574.7	574.7	562.2	545.0	537.9	534.0
56°	2823.5	2294.2	994.4	558.3	553.6	553.6	568.5	554.4	533.2	527.7	523.0
57.5°	2604.3	2010.0	832.3	539.5	532.4	543.4	551.2	536.4	516.8	509.0	513.6
60°	1796.2	1360.1	625.6	498.8	498.8	516.8	523.0	501.1	492.5	491.7	485.5
62.5°	1048.4	792.4	489.4	462.0	463.5	478.4	483.1	470.6	459.6	472.9	479.2
65°	555.9	472.9	419.7	422.8	423.6	435.3	455.7	454.9	454.1	458.1	458.8
67.5°	402.5	393.1	381.3	378.2	379.8	388.4	408.7	424.4	423.6	414.2	407.2
70°	358.6	345.3	338.3	339.0	332.8	343.0	359.4	369.6	351.6	340.6	335.9
72.5°	298.3	294.4	289.7	290.5	278.0	275.6	256.8	256.8	252.1	249.0	254.5
75°	227.9	226.3	228.6	224.7	211.4	197.3	186.4	176.2	160.5	154.3	151.1
77.5°	144.1	148.8	154.3	145.6	140.2	130.0	119.0	108.8	96.3	89.3	89.3
80°	97.9	101.8	105.7	104.1	97.9	88.5	79.9	68.9	60.3	54.8	54.0
82.5°	74.4	77.5	83.0	76.7	70.5	62.6	55.6	47.8	39.9	33.7	33.7
85°	26.6	30.5	33.7	36.8	39.2	39.9	34.5	28.2	22.7	18.0	17.2
87.5°	7.0	7.8	8.6	7.8	7.8	7.8	8.6	7.8	7.0	5.5	5.5
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)