

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: P526582

Luminaire Tested: **GALN-SA1C-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5784 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

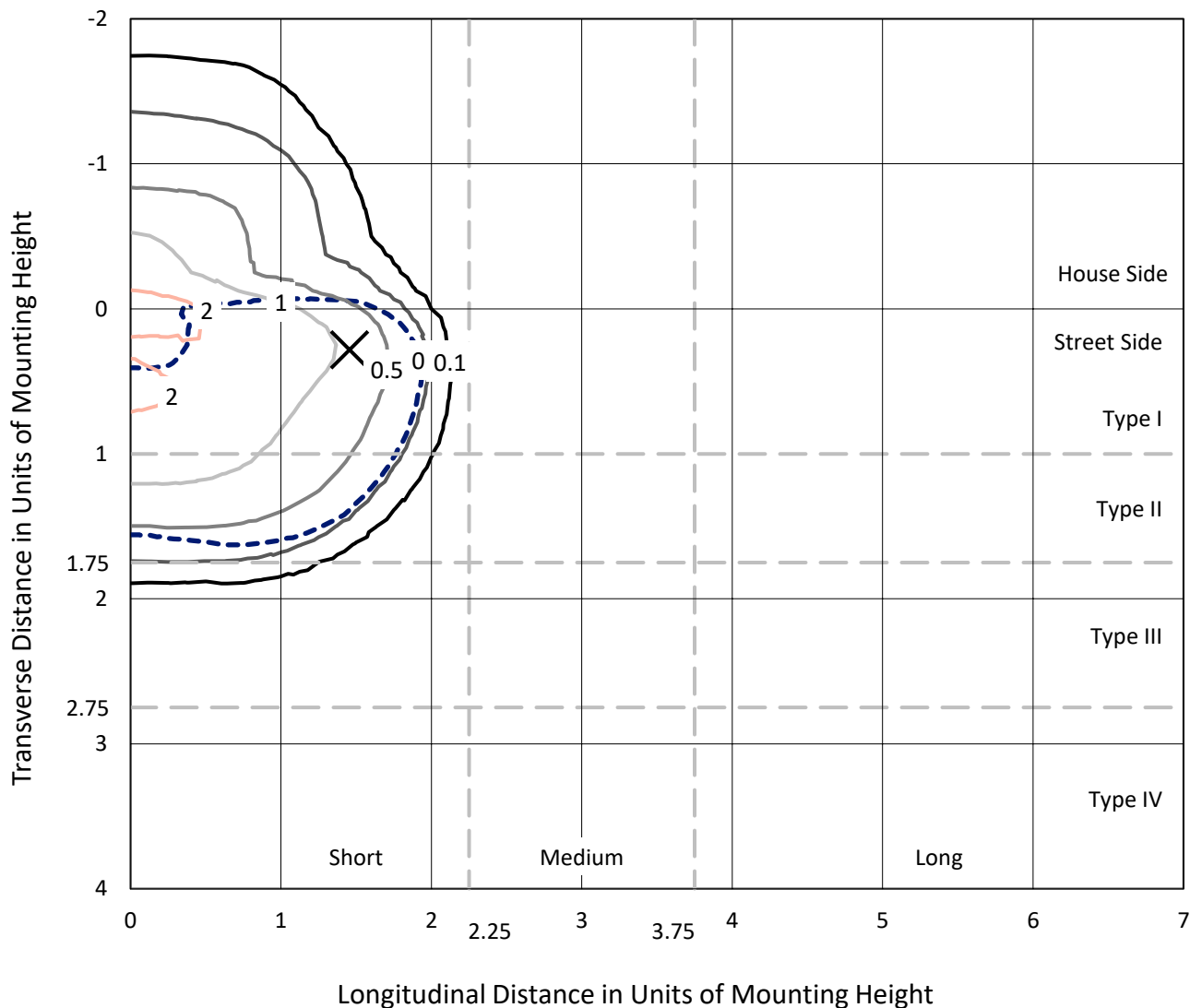
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

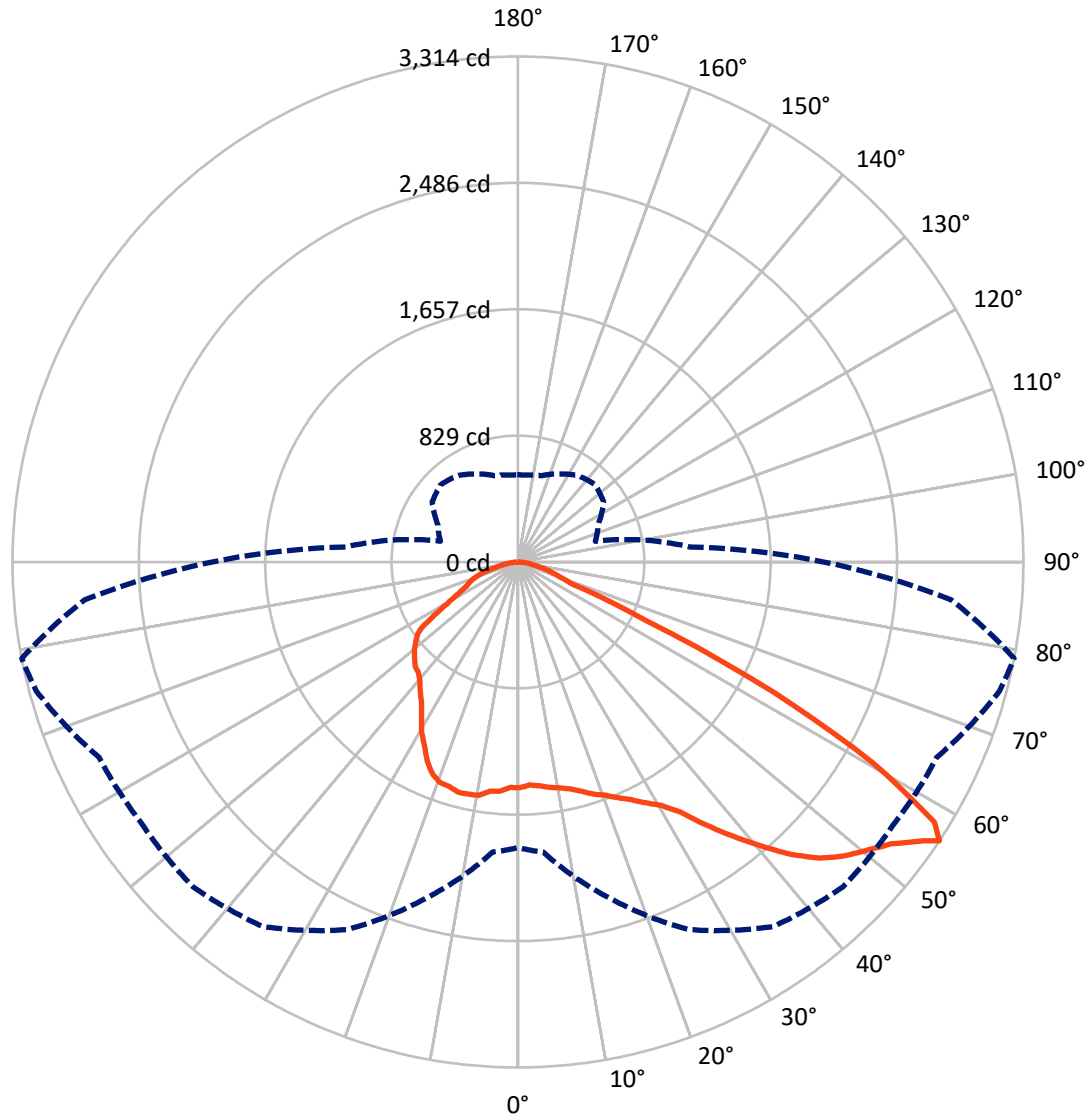
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1708.1	0.0	1708.1
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	4075.9	0.0	4075.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	5784.0	0.0	5784.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	2.3
10°-20°	368.2	6.4
20°-30°	630.0	10.9
30°-40°	965.5	16.7
40°-50°	1304.9	22.6
50°-60°	1498.7	25.9
60°-70°	683.1	11.8
70°-80°	168.4	2.9
80°-90°	30.6	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°	5784.0	100.0
0°-180°	5784.0	100.0

Coefficient of Utilization



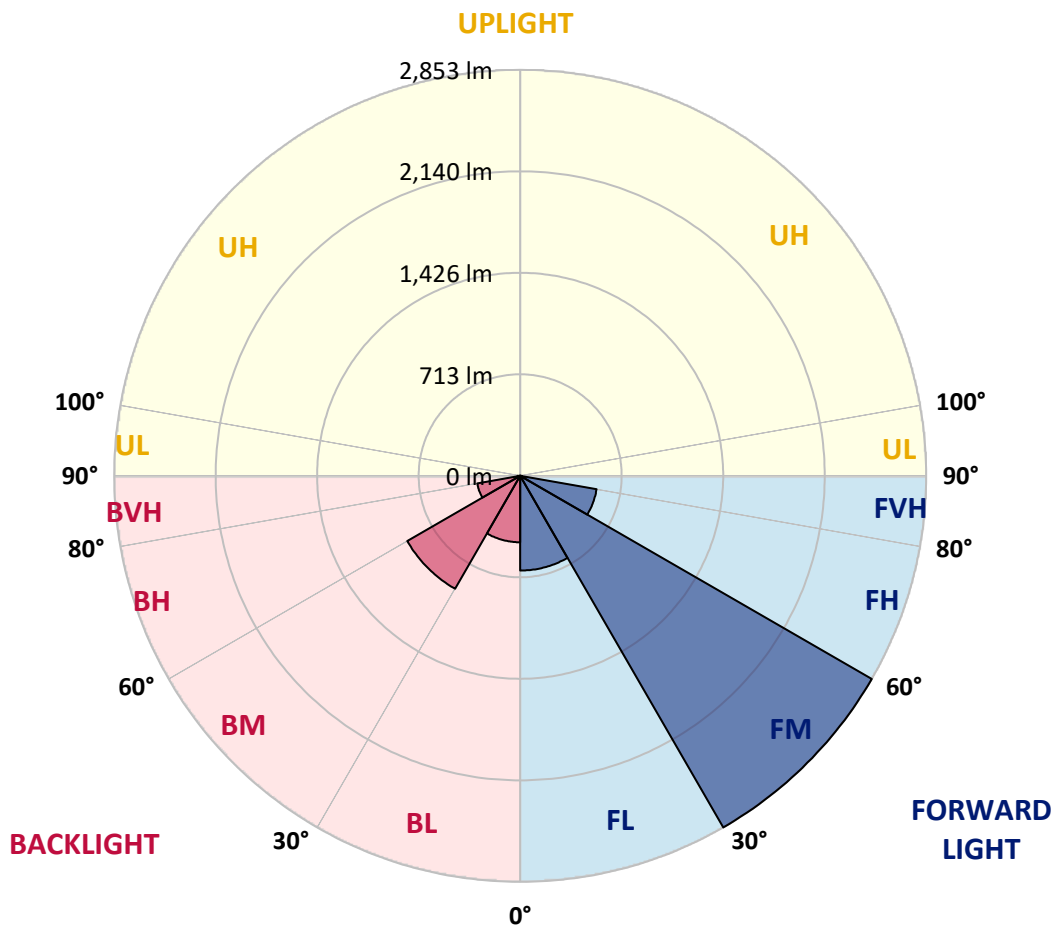
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	665.5	11.5			
FM (30°-60°)	2852.8	49.3			
FH (60°-80°)	545.3	9.4			G0/660
FVH (80°-90°)	12.2	0.2			G1/100
BL (0°-30°)	467.3	8.1	B1/500		
BM (30°-60°)	916.2	15.8	B1/1000		
BH (60°-80°)	306.3	5.3	B1/500		G1/500
BVH (80°-90°)	18.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9
2.5°	1407.8	1404.2	1412.9	1419.4	1427.3	1437.4	1442.4	1445.3	1470.5	1464.0	1483.5
5°	1377.6	1368.2	1374.7	1379.7	1393.4	1405.7	1419.4	1441.0	1464.0	1474.1	1497.9
7.5°	1350.9	1345.9	1344.4	1348.0	1366.8	1382.6	1406.4	1438.1	1475.6	1492.1	1505.8
10°	1307.0	1299.8	1310.6	1334.4	1339.4	1372.5	1399.9	1445.3	1477.7	1506.6	1546.9
12.5°	1287.5	1280.3	1282.5	1296.2	1331.5	1363.2	1395.6	1446.8	1515.2	1526.7	1580.8
15°	1318.5	1311.3	1313.5	1309.9	1343.7	1360.3	1411.4	1475.6	1541.1	1560.6	1618.2
17.5°	1389.1	1389.8	1380.5	1372.5	1364.6	1399.9	1435.2	1492.9	1551.2	1600.2	1643.4
20°	1523.8	1500.1	1481.3	1436.7	1424.4	1439.5	1484.2	1539.7	1592.3	1632.6	1681.6
22.5°	1627.6	1629.8	1603.1	1529.6	1503.0	1509.4	1547.6	1593.0	1650.7	1679.5	1735.7
25°	1778.2	1763.1	1734.2	1675.9	1616.1	1621.1	1649.2	1690.3	1706.1	1726.3	1787.5
27.5°	1915.8	1920.1	1863.2	1808.4	1734.2	1719.8	1770.3	1777.5	1750.8	1789.0	1809.9
30°	2055.6	2052.0	2014.5	1950.4	1877.6	1880.5	1902.8	1867.5	1830.8	1851.7	1866.1
32.5°	2200.4	2159.3	2157.9	2100.2	2044.8	2018.1	1990.7	2008.0	1951.1	1955.4	1941.7
35°	2316.4	2322.2	2289.0	2247.9	2220.6	2173.7	2098.8	2129.8	2119.0	2113.9	2054.9
37.5°	2400.7	2378.4	2394.9	2381.2	2355.3	2296.9	2219.1	2248.7	2253.7	2278.2	2209.8
40°	2469.9	2460.5	2504.4	2511.6	2493.6	2367.5	2227.8	2315.7	2391.3	2444.6	2363.2
42.5°	2503.0	2523.2	2569.3	2624.8	2584.4	2449.7	2272.4	2366.8	2535.4	2619.7	2508.8
45°	2547.7	2521.7	2590.2	2691.8	2692.5	2518.9	2315.7	2436.0	2647.8	2770.3	2608.2
47.5°	2502.3	2515.2	2585.9	2714.8	2748.0	2591.6	2432.4	2534.0	2771.7	2880.5	2700.4
50°	2400.7	2426.6	2555.6	2689.6	2789.8	2668.7	2566.4	2639.9	2886.3	2969.2	2715.5
52.5°	2294.8	2309.2	2510.9	2709.1	2808.5	2768.1	2745.8	2786.2	3026.1	3069.3	2734.3
55°	2006.6	2075.0	2363.2	2700.4	2900.0	2947.5	2930.3	2989.3	3184.6	3227.8	2836.6
56°	1873.3	1909.3	2274.6	2660.1	2918.0	3013.1	3004.5	3031.1	3268.9	3314.3	2852.4
57.5°	1626.9	1629.8	1939.6	2481.4	2850.3	3032.6	3023.9	3044.8	3252.3	3221.3	2713.4
60°	1018.1	1062.7	1319.9	1908.6	2423.7	2813.5	2862.5	2694.7	2742.2	2676.6	2111.1
62.5°	527.4	520.9	691.7	1116.0	1608.9	2014.5	2059.9	2052.0	1978.5	1882.7	1379.0
65°	263.0	264.4	361.7	552.6	824.2	1054.8	1181.6	1195.3	1000.0	920.1	654.2
67.5°	190.9	198.1	260.1	337.9	388.3	434.5	532.4	522.4	395.6	376.1	348.7
70°	148.4	154.9	211.1	257.9	234.2	234.2	255.1	263.7	281.7	289.6	299.0
72.5°	108.1	113.1	161.4	178.0	153.5	165.0	190.9	211.1	229.8	232.7	243.5
75°	74.2	78.5	105.9	98.0	92.2	113.8	139.8	158.5	172.2	179.4	185.9
77.5°	48.3	49.7	60.5	51.2	59.1	73.5	90.8	106.6	120.3	126.1	127.5
80°	21.6	23.8	25.9	32.4	41.1	52.6	64.8	77.8	86.5	88.6	92.9
82.5°	12.2	12.2	15.9	23.1	30.3	38.2	46.8	56.2	66.3	68.4	67.7
85°	6.5	6.5	9.4	13.7	18.7	22.3	21.6	22.3	23.8	27.4	26.7
87.5°	2.2	2.2	2.9	2.9	3.6	4.3	3.6	5.0	6.5	6.5	6.5
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°	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9
2.5°	1477.7	1484.2	1475.6	1494.3	1494.3	1490.7	1472.7	1478.5	1482.8	1482.8	1486.4
5°	1505.8	1503.7	1509.4	1487.1	1473.4	1468.4	1438.8	1424.4	1412.2	1411.4	1400.6
7.5°	1521.7	1515.9	1513.8	1497.2	1436.7	1399.9	1336.5	1299.8	1291.8	1263.7	1274.6
10°	1546.9	1557.7	1546.9	1456.8	1372.5	1288.2	1226.3	1169.4	1147.0	1129.0	1118.2
12.5°	1598.8	1593.7	1531.1	1409.3	1291.1	1191.0	1098.8	1039.0	1016.6	1000.8	999.3
15°	1642.7	1617.5	1521.7	1334.4	1164.3	1057.7	982.0	939.5	929.4	930.9	937.4
17.5°	1657.9	1640.6	1472.7	1256.5	1069.9	944.6	909.3	902.8	912.1	923.0	925.8
20°	1681.6	1654.3	1452.5	1150.6	953.2	874.0	871.8	894.9	912.1	928.0	930.2
22.5°	1731.3	1662.2	1387.0	1050.5	873.2	853.1	874.0	893.4	920.1	933.0	921.5
25°	1745.8	1644.9	1294.7	930.2	822.8	840.1	862.4	889.1	907.8	915.0	920.1
27.5°	1758.0	1618.2	1170.1	850.2	807.0	839.4	862.4	884.8	894.9	901.3	907.1
30°	1792.6	1610.3	1062.0	796.9	796.9	825.0	854.5	860.3	874.0	881.9	892.0
32.5°	1809.9	1555.5	951.1	763.0	786.8	832.2	834.3	845.1	845.9	852.3	841.5
35°	1855.3	1516.6	848.0	738.5	791.1	825.0	835.8	829.3	794.0	776.7	780.3
37.5°	1888.4	1497.2	773.8	735.6	791.8	832.9	838.7	789.7	752.9	724.1	731.3
40°	1977.8	1448.9	717.6	730.6	798.3	841.5	825.7	772.4	706.1	676.5	671.5
42.5°	2046.2	1414.3	682.3	724.8	803.4	853.8	819.2	737.8	670.1	642.7	649.9
45°	2125.5	1406.4	663.6	726.3	812.0	860.3	811.3	711.1	639.1	628.3	626.1
47.5°	2153.6	1349.5	643.4	714.0	809.8	858.1	784.6	691.0	627.6	629.0	634.8
50°	2106.7	1291.1	628.3	688.8	795.4	838.7	742.8	664.3	621.1	639.1	649.2
52.5°	2046.9	1231.3	597.3	654.9	765.9	808.4	723.4	662.9	614.6	608.8	611.0
55°	2064.9	1182.3	554.1	608.8	718.3	752.2	701.8	649.2	598.7	577.1	584.3
56°	2006.6	1131.9	526.0	580.0	685.9	716.2	691.0	636.9	585.8	571.4	571.4
57.5°	1841.6	962.6	489.2	533.9	617.5	653.5	670.1	629.7	571.4	546.1	546.9
60°	1358.1	684.5	438.8	470.5	511.6	540.4	617.5	609.5	535.3	518.0	511.6
62.5°	837.2	500.0	402.8	415.0	435.9	459.7	538.9	551.9	497.1	478.4	474.1
65°	469.0	382.6	375.4	380.4	390.5	402.8	447.4	476.2	438.8	410.0	408.5
67.5°	343.0	342.2	348.0	352.3	356.6	356.6	367.5	379.0	373.9	350.9	348.7
70°	304.8	306.9	311.3	312.0	313.4	308.4	299.7	296.1	301.9	287.5	284.6
72.5°	251.5	258.7	263.7	264.4	256.5	250.0	238.5	226.2	221.9	219.0	218.3
75°	193.1	198.1	200.3	199.6	196.7	187.3	173.6	161.4	153.5	144.8	149.1
77.5°	130.4	137.6	141.2	141.2	136.9	122.5	116.0	106.6	98.7	89.3	90.8
80°	91.5	96.5	102.3	101.6	94.4	87.2	77.8	69.2	62.7	55.5	54.8
82.5°	68.4	71.3	74.2	72.8	67.7	60.5	54.0	46.1	38.9	33.9	33.9
85°	24.5	26.7	32.4	33.9	36.7	36.7	31.0	25.9	20.9	17.3	17.3
87.5°	7.2	7.2	7.9	7.9	7.2	7.9	6.5	7.2	7.9	5.0	5.0
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)