

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: P526840

Luminaire Tested: **GALN-SA1D-740-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526840  
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-SA1D-740-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6673 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

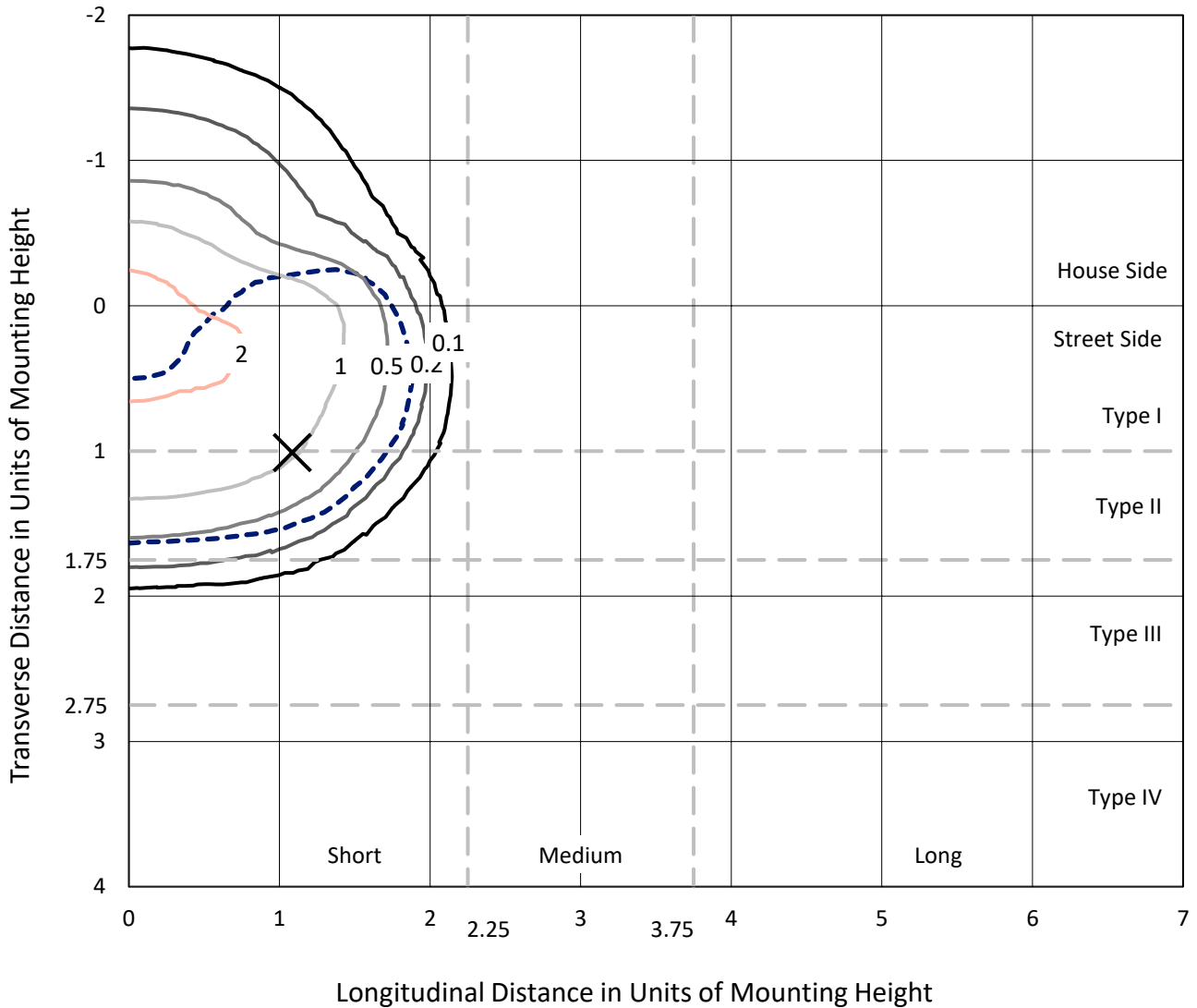
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

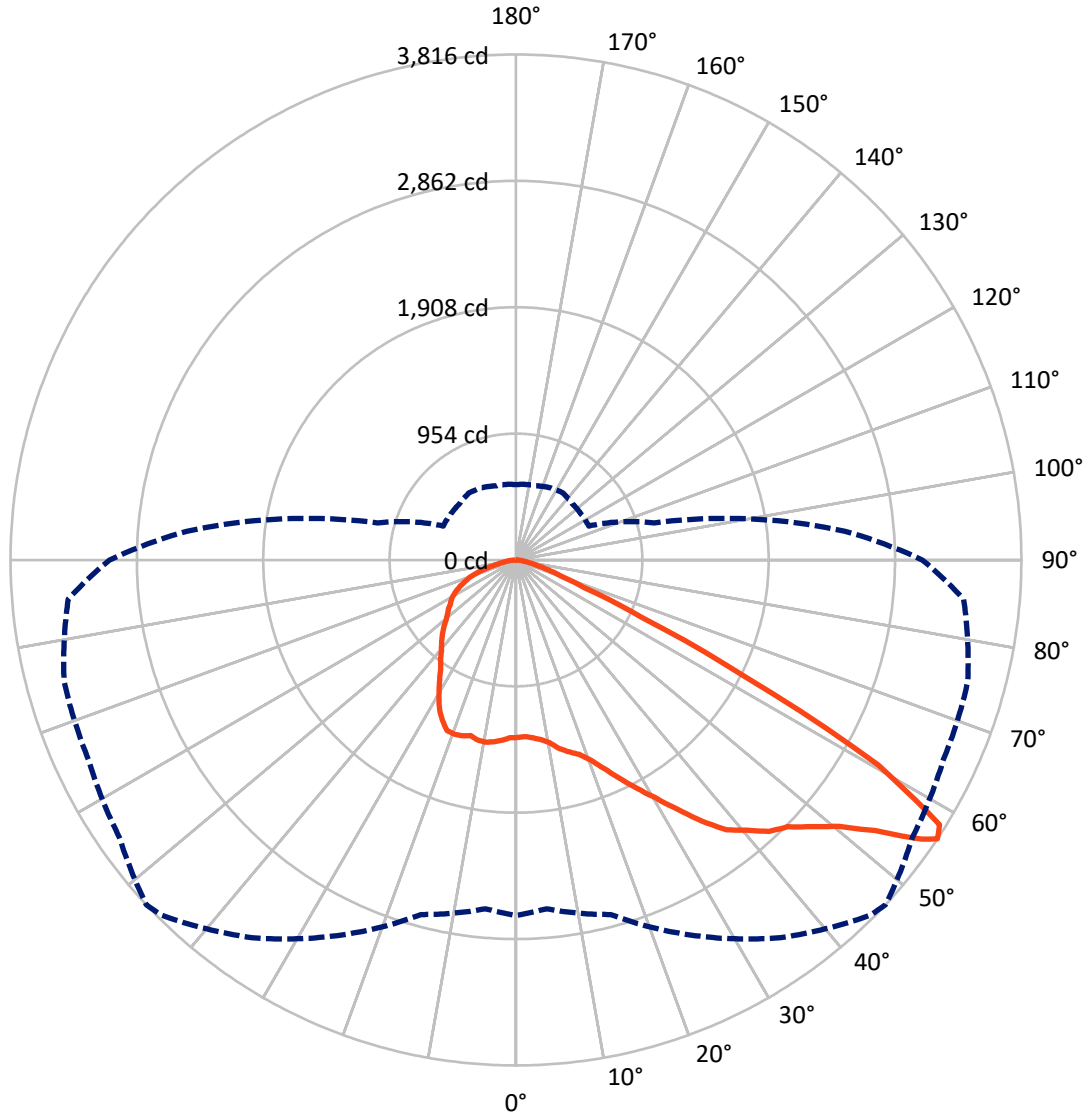
x Max cd  
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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
<b>House Side</b>	Lumens	2114.6	0.0	2114.6
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	4558.4	0.0	4558.4
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	6673.0	0.0	6673.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.6	2.0
10°-20°	412.0	6.2
20°-30°	728.3	10.9
30°-40°	1093.9	16.4
40°-50°	1501.2	22.5
50°-60°	1788.5	26.8
60°-70°	765.4	11.5
70°-80°	216.6	3.2
80°-90°	36.5	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°	6673.0	100.0
0°-180°	6673.0	100.0

**Coefficient of Utilization**



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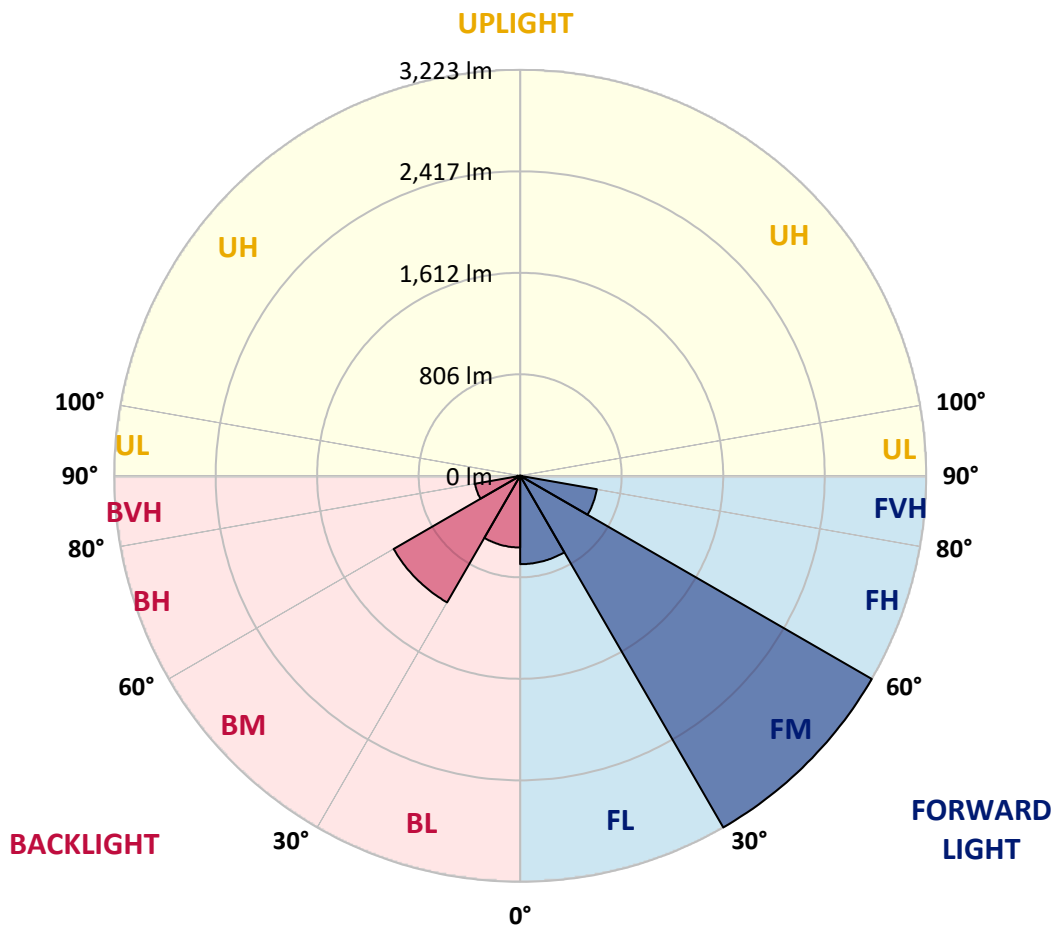
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	701.6	10.5			
FM (30°-60°)	3223.2	48.3			
FH (60°-80°)	618.2	9.3			G0/660
FVH (80°-90°)	15.5	0.2			G1/100
BL (0°-30°)	569.3	8.5	B2/1000		
BM (30°-60°)	1160.5	17.4	B2/2500		
BH (60°-80°)	363.8	5.5	B1/500		G1/500
BVH (80°-90°)	21.0	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°	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4
2.5°	1335.3	1332.7	1331.0	1344.7	1339.6	1340.4	1335.3	1340.4	1343.8	1336.1	1347.2
5°	1332.7	1340.4	1333.6	1337.8	1348.9	1345.5	1348.9	1359.1	1356.6	1354.0	1350.6
7.5°	1356.6	1357.4	1362.5	1364.2	1367.6	1364.2	1369.3	1378.7	1376.1	1361.7	1363.4
10°	1390.6	1392.3	1393.2	1402.5	1408.5	1409.3	1403.4	1394.9	1394.0	1413.6	1400.0
12.5°	1429.8	1425.5	1435.7	1439.1	1445.9	1453.6	1461.3	1443.4	1454.4	1455.3	1439.1
15°	1486.8	1491.0	1479.1	1479.1	1481.7	1482.5	1503.8	1495.3	1493.6	1484.2	1491.0
17.5°	1571.9	1543.0	1542.1	1530.2	1528.5	1535.3	1543.0	1549.8	1572.7	1554.0	1517.4
20°	1634.0	1640.8	1616.1	1601.7	1604.2	1619.5	1611.9	1642.5	1658.7	1628.1	1592.3
22.5°	1743.8	1720.8	1726.8	1694.4	1697.0	1713.2	1712.3	1743.8	1753.2	1704.7	1652.7
25°	1817.8	1811.9	1817.0	1791.5	1794.9	1807.6	1828.1	1880.0	1864.6	1811.0	1691.0
27.5°	1925.9	1914.0	1909.8	1900.4	1897.0	1931.0	1954.9	2010.2	1999.1	1920.8	1759.1
30°	2036.6	2028.9	2033.2	1994.9	2008.5	2080.8	2087.6	2163.4	2158.3	2020.4	1834.9
32.5°	2113.2	2117.4	2125.1	2103.8	2164.2	2222.1	2245.1	2331.0	2335.3	2191.5	1981.2
35°	2236.6	2222.1	2226.3	2251.0	2279.1	2384.6	2422.1	2479.1	2514.9	2371.0	2121.7
37.5°	2314.0	2329.3	2311.5	2350.6	2423.8	2550.6	2584.6	2643.4	2680.8	2548.0	2313.2
40°	2434.9	2410.2	2422.9	2451.0	2525.9	2691.0	2681.7	2742.1	2754.0	2698.7	2491.9
42.5°	2565.1	2553.1	2535.3	2599.1	2662.1	2782.1	2800.8	2772.7	2833.1	2845.9	2747.2
45°	2720.8	2735.3	2737.8	2739.5	2794.8	2899.5	2874.0	2849.3	2919.1	3011.9	2905.5
47.5°	2865.5	2819.5	2852.7	2898.7	2977.0	2977.8	3007.6	2948.9	3022.9	3105.5	3048.5
50°	2914.0	2891.9	2936.1	3022.9	3143.8	3156.5	3159.9	3076.5	3114.8	3180.4	3097.8
52.5°	2895.3	2887.6	3000.8	3135.3	3312.3	3377.0	3394.0	3291.0	3312.3	3282.5	3206.8
55°	2805.9	2828.9	2942.9	3217.0	3488.5	3688.4	3720.8	3590.6	3455.3	3478.2	3394.8
56°	2683.4	2643.4	2771.0	3124.2	3480.8	3789.7	3816.1	3653.6	3561.6	3531.9	3393.1
57.5°	2276.6	2224.6	2392.3	2811.0	3287.6	3751.4	3771.0	3679.9	3543.8	3483.3	3145.5
60°	1332.7	1358.3	1571.0	1938.7	2536.1	3075.7	3141.2	3207.6	3116.5	2845.9	2341.2
62.5°	643.4	627.2	779.6	1111.5	1545.5	1963.4	1943.8	2130.2	2232.3	2022.1	1478.3
65°	337.0	335.3	425.5	606.8	849.3	1031.5	1049.3	1149.8	1290.2	1041.7	750.6
67.5°	247.7	254.5	299.6	426.4	546.4	557.4	554.9	605.1	618.7	523.4	461.3
70°	194.0	197.4	230.6	324.2	406.8	364.2	356.6	362.5	402.5	419.6	399.1
72.5°	140.4	143.8	171.9	218.7	254.5	248.5	253.6	286.8	336.2	354.0	332.8
75°	93.6	96.2	111.5	133.6	150.6	162.6	171.9	210.2	256.2	266.4	256.2
77.5°	64.7	67.2	77.4	94.5	96.2	103.8	107.2	125.1	153.2	166.0	159.1
80°	36.6	36.6	41.7	48.5	59.6	69.8	71.5	86.0	98.7	107.2	108.9
82.5°	17.0	17.9	22.1	29.8	39.1	48.5	50.2	59.6	68.9	77.4	80.0
85°	8.5	9.4	12.8	17.9	23.8	28.9	28.1	28.9	30.6	28.9	29.8
87.5°	2.6	2.6	3.4	4.3	3.4	4.3	4.3	5.1	6.0	6.8	7.7
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°	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4	1340.4
2.5°	1348.1	1350.6	1333.6	1349.8	1343.8	1343.0	1354.9	1353.2	1357.4	1355.7	1345.5
5°	1348.9	1343.0	1360.8	1344.7	1352.3	1368.5	1357.4	1383.0	1370.2	1378.7	1360.0
7.5°	1375.3	1377.0	1373.6	1380.4	1377.0	1384.7	1378.7	1384.7	1374.4	1375.3	1392.3
10°	1398.3	1393.2	1399.1	1390.6	1396.6	1394.0	1380.4	1376.1	1379.6	1375.3	1386.4
12.5°	1440.8	1431.5	1427.2	1417.0	1410.2	1384.7	1363.4	1351.5	1367.6	1370.2	1365.1
15°	1484.2	1485.1	1465.5	1442.5	1400.0	1361.7	1366.8	1371.0	1371.0	1377.8	1365.1
17.5°	1511.5	1511.5	1493.6	1447.6	1404.2	1382.1	1377.0	1363.4	1351.5	1349.8	1348.9
20°	1559.1	1544.7	1503.8	1446.8	1402.5	1392.3	1354.0	1321.7	1297.0	1288.5	1287.6
22.5°	1613.6	1577.0	1520.0	1448.5	1400.0	1385.5	1314.0	1265.5	1221.3	1202.5	1205.1
25°	1663.8	1605.1	1529.3	1440.8	1390.6	1320.8	1240.8	1173.6	1127.6	1112.3	1104.7
27.5°	1698.7	1634.9	1529.3	1447.6	1355.7	1248.5	1166.8	1080.8	1040.8	1030.6	1032.3
30°	1745.5	1672.3	1555.7	1433.2	1285.9	1154.9	1057.0	1000.8	977.0	968.5	974.5
32.5°	1855.3	1770.2	1592.3	1398.3	1203.4	1061.3	982.1	950.6	915.7	898.7	892.8
35°	1974.4	1862.9	1628.1	1339.6	1110.6	976.2	926.8	897.9	856.2	837.4	840.8
37.5°	2142.9	1982.1	1630.6	1242.5	1010.2	928.5	883.4	838.3	804.2	775.3	766.8
40°	2370.2	2144.6	1624.7	1140.4	929.3	872.3	839.1	783.0	744.7	724.2	728.5
42.5°	2570.2	2335.3	1600.0	1024.7	856.2	834.0	796.6	741.3	703.8	682.5	680.8
45°	2738.7	2475.7	1553.2	925.9	794.9	791.5	748.1	705.5	675.7	656.2	664.7
47.5°	2894.4	2588.9	1482.5	827.2	738.7	745.5	703.8	677.4	658.7	640.8	640.0
50°	2950.6	2587.2	1420.4	745.5	693.6	690.2	688.5	660.4	640.8	625.5	632.3
52.5°	3044.2	2616.1	1353.2	689.4	652.8	653.6	659.6	639.1	617.0	607.6	616.2
55°	3178.7	2620.4	1205.1	623.8	618.7	624.7	624.7	611.1	592.3	584.7	580.4
56°	3068.9	2493.6	1080.8	606.8	601.7	601.7	617.9	602.5	579.6	573.6	568.5
57.5°	2830.6	2184.6	904.7	586.4	578.7	590.6	599.1	583.0	561.7	553.2	558.3
60°	1952.3	1478.3	680.0	542.1	542.1	561.7	568.5	544.7	535.3	534.5	527.7
62.5°	1139.6	861.3	531.9	502.1	503.8	520.0	525.1	511.5	499.6	514.0	520.8
65°	604.2	514.0	456.2	459.6	460.4	473.2	495.3	494.5	493.6	497.9	498.7
67.5°	437.4	427.2	414.5	411.1	412.8	422.1	444.2	461.3	460.4	450.2	442.5
70°	389.8	375.3	367.7	368.5	361.7	372.8	390.6	401.7	382.1	370.2	365.1
72.5°	324.2	320.0	314.9	315.7	302.1	299.6	279.1	279.1	274.0	270.6	276.6
75°	247.7	246.0	248.5	244.3	229.8	214.5	202.5	191.5	174.5	167.7	164.3
77.5°	156.6	161.7	167.7	158.3	152.3	141.3	129.4	118.3	104.7	97.0	97.0
80°	106.4	110.6	114.9	113.2	106.4	96.2	86.8	74.9	65.5	59.6	58.7
82.5°	80.8	84.3	90.2	83.4	76.6	68.1	60.4	51.9	43.4	36.6	36.6
85°	28.9	33.2	36.6	40.0	42.6	43.4	37.4	30.6	24.7	19.6	18.7
87.5°	7.7	8.5	9.4	8.5	8.5	8.5	9.4	8.5	7.7	6.0	6.0
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)