

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: P652192

Luminaire Tested: **GALN-SA1B-840-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652192  
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-SA1B-840-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 800mA 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: 4128.5 lumens  
Efficiency: N/A  
Efficacy: 93.8 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

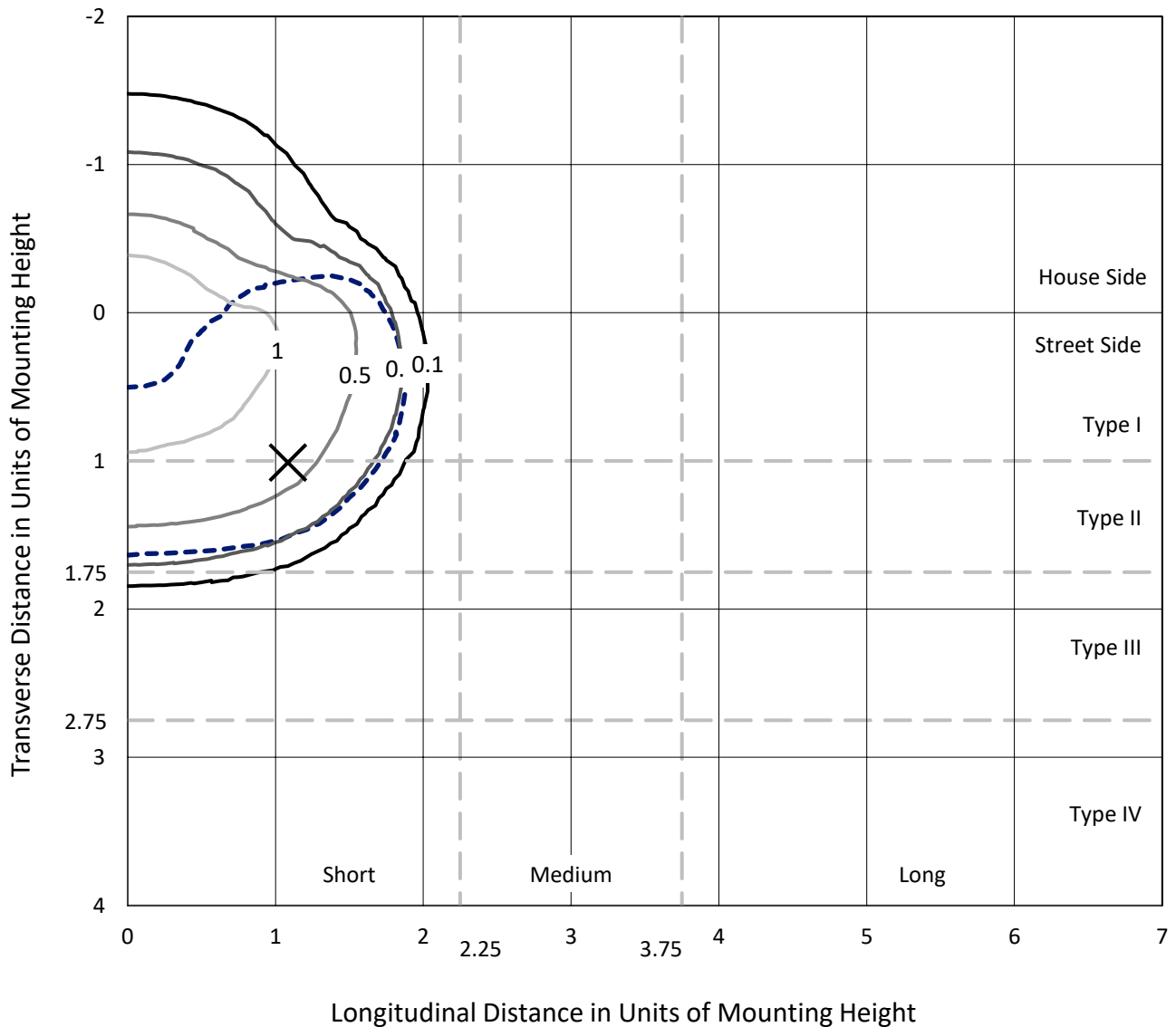
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

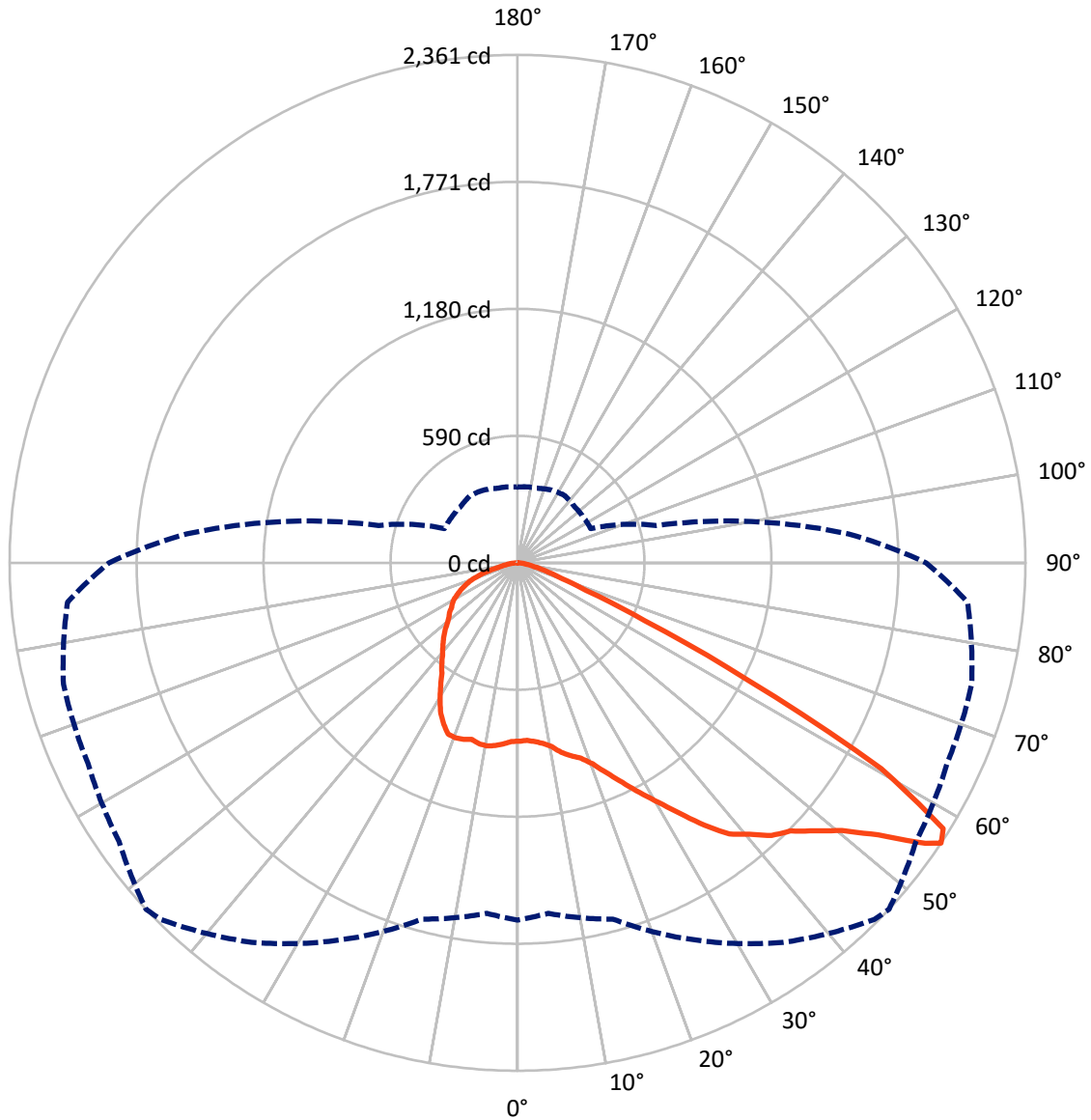
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	1308.3	0.0	1308.3
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	2820.2	0.0	2820.2
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	4128.5	0.0	4128.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.8	2.0
10°-20°	254.9	6.2
20°-30°	450.6	10.9
30°-40°	676.8	16.4
40°-50°	928.8	22.5
50°-60°	1106.5	26.8
60°-70°	473.5	11.5
70°-80°	134.0	3.2
80°-90°	22.5	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°	4128.5	100.0
0°-180°	4128.5	100.0

**Coefficient of Utilization**

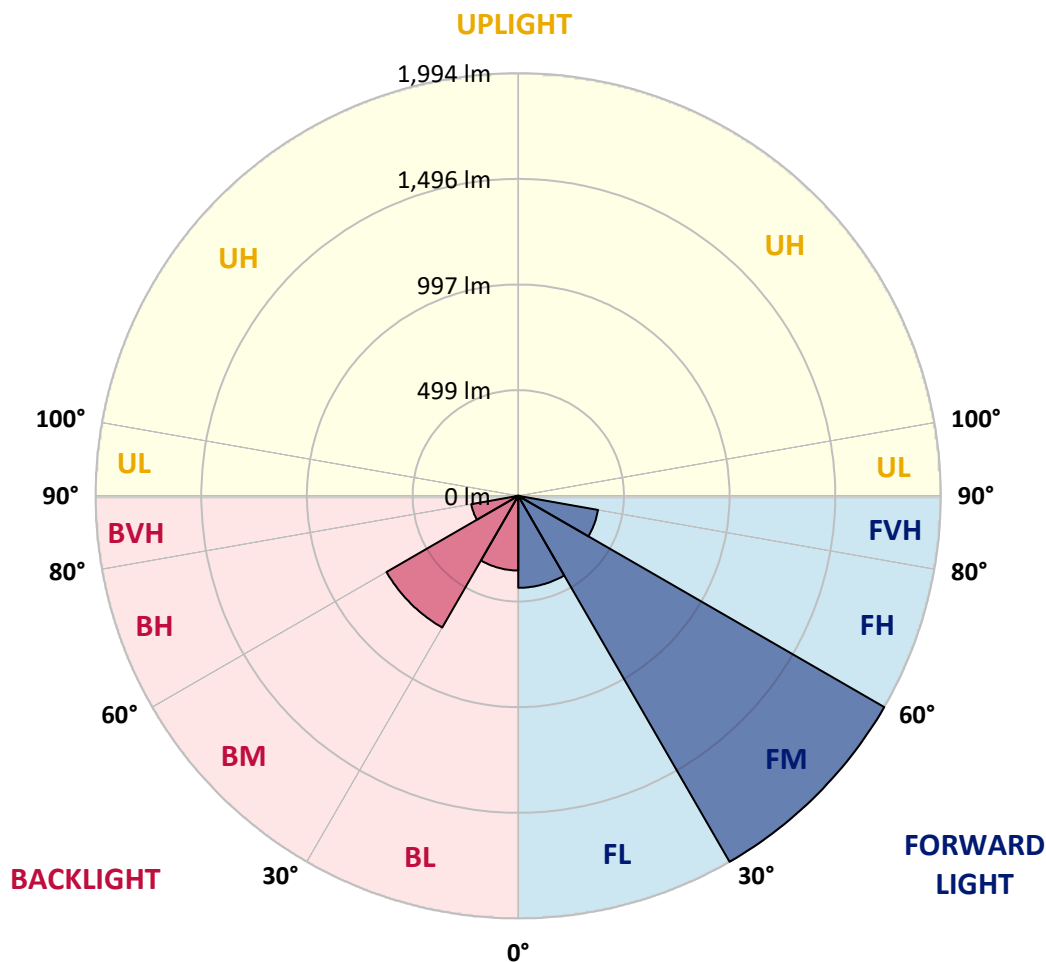


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	434.0	10.5			
FM (30°-60°)	1994.1	48.3			
FH (60°-80°)	382.4	9.3			G0/660
FVH (80°-90°)	9.6	0.2			G0/10
BL (0°-30°)	352.2	8.5	B1/500		
BM (30°-60°)	717.9	17.4	B1/1000		
BH (60°-80°)	225.1	5.5	B1/500		G1/500
BVH (80°-90°)	13.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	829.3	829.3	829.3	829.3	829.3	829.3	829.3	829.3	829.3	829.3	829.3
2.5°	826.1	824.5	823.5	831.9	828.7	829.3	826.1	829.3	831.4	826.6	833.5
5°	824.5	829.3	825.1	827.7	834.5	832.4	834.5	840.8	839.3	837.7	835.6
7.5°	839.3	839.8	842.9	844.0	846.1	844.0	847.2	852.9	851.4	842.4	843.5
10°	860.3	861.4	861.9	867.7	871.4	871.9	868.2	863.0	862.4	874.6	866.1
12.5°	884.6	882.0	888.3	890.4	894.6	899.3	904.1	893.0	899.9	900.4	890.4
15°	919.9	922.5	915.1	915.1	916.7	917.2	930.4	925.1	924.1	918.3	922.5
17.5°	972.5	954.6	954.0	946.7	945.6	949.8	954.6	958.8	973.0	961.4	938.8
20°	1011.0	1015.2	999.9	991.0	992.5	1002.0	997.3	1016.2	1026.2	1007.3	985.1
22.5°	1078.8	1064.6	1068.3	1048.3	1049.9	1059.9	1059.4	1078.8	1084.6	1054.6	1022.5
25°	1124.7	1121.0	1124.2	1108.4	1110.5	1118.4	1131.0	1163.1	1153.6	1120.5	1046.2
27.5°	1191.5	1184.1	1181.5	1175.7	1173.6	1194.7	1209.4	1243.7	1236.9	1188.4	1088.3
30°	1260.0	1255.3	1257.9	1234.2	1242.6	1287.4	1291.6	1338.5	1335.3	1250.0	1135.2
32.5°	1307.3	1310.0	1314.7	1301.6	1339.0	1374.8	1389.0	1442.1	1444.8	1355.8	1225.8
35°	1383.7	1374.8	1377.4	1392.7	1410.0	1475.4	1498.5	1533.8	1555.9	1466.9	1312.6
37.5°	1431.6	1441.1	1430.0	1454.3	1499.6	1578.0	1599.1	1635.4	1658.5	1576.5	1431.1
40°	1506.4	1491.1	1499.0	1516.4	1562.7	1664.9	1659.1	1696.5	1703.9	1669.6	1541.6
42.5°	1587.0	1579.6	1568.5	1608.0	1647.0	1721.2	1732.8	1715.5	1752.8	1760.7	1699.7
45°	1683.3	1692.3	1693.9	1694.9	1729.1	1793.9	1778.1	1762.8	1806.0	1863.4	1797.6
47.5°	1772.8	1744.4	1764.9	1793.3	1841.8	1842.3	1860.8	1824.5	1870.2	1921.3	1886.0
50°	1802.9	1789.1	1816.6	1870.2	1945.0	1952.9	1955.0	1903.4	1927.1	1967.6	1916.6
52.5°	1791.2	1786.5	1856.5	1939.8	2049.3	2089.3	2099.8	2036.1	2049.3	2030.8	1984.0
55°	1736.0	1750.2	1820.8	1990.3	2158.3	2282.0	2302.0	2221.4	2137.7	2152.0	2100.3
56°	1660.1	1635.4	1714.4	1932.9	2153.5	2344.6	2360.9	2260.4	2203.5	2185.1	2099.3
57.5°	1408.5	1376.4	1480.1	1739.1	2034.0	2320.9	2333.0	2276.8	2192.5	2155.1	1946.1
60°	824.5	840.3	971.9	1199.4	1569.1	1902.8	1943.4	1984.5	1928.2	1760.7	1448.5
62.5°	398.0	388.0	482.3	687.7	956.2	1214.7	1202.6	1317.9	1381.1	1251.1	914.6
65°	208.5	207.5	263.2	375.4	525.5	638.2	649.3	711.3	798.2	644.5	464.4
67.5°	153.2	157.4	185.4	263.8	338.0	344.9	343.3	374.3	382.8	323.8	285.4
70°	120.0	122.1	142.7	200.6	251.7	225.4	220.6	224.3	249.0	259.6	246.9
72.5°	86.9	89.0	106.4	135.3	157.4	153.7	156.9	177.5	208.0	219.0	205.9
75°	57.9	59.5	69.0	82.7	93.2	100.6	106.4	130.0	158.4	164.8	158.4
77.5°	40.0	41.6	47.9	58.4	59.5	64.3	66.4	77.4	94.8	102.7	98.5
80°	22.6	22.6	25.8	30.0	36.8	43.1	44.2	53.2	61.1	66.4	67.4
82.5°	10.5	11.0	13.7	18.4	24.2	30.0	31.0	36.8	42.6	47.9	49.5
85°	5.3	5.8	7.9	11.0	14.7	17.9	17.4	17.9	18.9	17.9	18.4
87.5°	1.6	1.6	2.1	2.6	2.1	2.6	2.6	3.2	3.7	4.2	4.7
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°	829.3	829.3	829.3	829.3	829.3	829.3	829.3	829.3	829.3	829.3	829.3
2.5°	834.0	835.6	825.1	835.1	831.4	830.8	838.2	837.2	839.8	838.7	832.4
5°	834.5	830.8	841.9	831.9	836.6	846.6	839.8	855.6	847.7	852.9	841.4
7.5°	850.8	851.9	849.8	854.0	851.9	856.6	852.9	856.6	850.3	850.8	861.4
10°	865.1	861.9	865.6	860.3	864.0	862.4	854.0	851.4	853.5	850.8	857.7
12.5°	891.4	885.7	883.0	876.7	872.5	856.6	843.5	836.1	846.1	847.7	844.5
15°	918.3	918.8	906.7	892.5	866.1	842.4	845.6	848.2	848.2	852.4	844.5
17.5°	935.1	935.1	924.1	895.7	868.8	855.0	851.9	843.5	836.1	835.1	834.5
20°	964.6	955.6	930.4	895.1	867.7	861.4	837.7	817.7	802.4	797.2	796.7
22.5°	998.3	975.6	940.4	896.2	866.1	857.2	813.0	783.0	755.6	743.9	745.5
25°	1029.4	993.1	946.2	891.4	860.3	817.2	767.7	726.1	697.7	688.2	683.4
27.5°	1050.9	1011.5	946.2	895.7	838.7	772.5	721.8	668.7	644.0	637.6	638.7
30°	1079.9	1034.6	962.5	886.7	795.6	714.5	654.0	619.2	604.4	599.2	602.9
32.5°	1147.8	1095.2	985.1	865.1	744.5	656.6	607.6	588.1	566.6	556.0	552.4
35°	1221.6	1152.6	1007.3	828.7	687.1	603.9	573.4	555.5	529.7	518.1	520.2
37.5°	1325.8	1226.3	1008.9	768.8	625.0	574.4	546.6	518.6	497.5	479.7	474.4
40°	1466.4	1326.8	1005.2	705.5	575.0	539.7	519.1	484.4	460.7	448.1	450.7
42.5°	1590.1	1444.8	989.9	633.9	529.7	516.0	492.8	458.6	435.5	422.3	421.3
45°	1694.4	1531.7	960.9	572.9	491.8	489.7	462.8	436.5	418.1	406.0	411.2
47.5°	1790.7	1601.7	917.2	511.7	457.0	461.2	435.5	419.2	407.5	396.4	395.9
50°	1825.5	1600.7	878.8	461.2	429.2	427.0	426.0	408.6	396.4	387.0	391.2
52.5°	1883.4	1618.6	837.2	426.5	403.8	404.4	408.1	395.4	381.7	375.9	381.2
55°	1966.6	1621.2	745.5	385.9	382.8	386.4	386.4	378.0	366.4	361.7	359.1
56°	1898.6	1542.7	668.7	375.4	372.2	372.2	382.2	372.8	358.6	354.9	351.7
57.5°	1751.2	1351.6	559.7	362.8	358.0	365.4	370.7	360.7	347.5	342.2	345.4
60°	1207.8	914.6	420.7	335.4	335.4	347.5	351.7	337.0	331.2	330.7	326.5
62.5°	705.0	532.9	329.1	310.7	311.7	321.7	324.9	316.5	309.1	318.0	322.3
65°	373.8	318.0	282.2	284.3	284.8	292.8	306.5	305.9	305.4	308.1	308.6
67.5°	270.6	264.3	256.4	254.3	255.3	261.1	274.8	285.4	284.8	278.5	273.8
70°	241.1	232.2	227.5	228.0	223.8	230.6	241.7	248.5	236.4	229.0	225.9
72.5°	200.6	198.0	194.8	195.4	187.0	185.4	172.7	172.7	169.5	167.4	171.1
75°	153.2	152.1	153.7	151.1	142.1	132.7	125.3	118.5	107.9	103.7	101.6
77.5°	96.9	100.1	103.7	98.0	94.3	87.4	80.1	73.2	64.8	60.0	60.0
80°	65.9	68.5	71.1	70.1	65.9	59.5	53.7	46.3	40.5	36.8	36.3
82.5°	50.0	52.1	55.8	51.6	47.3	42.1	37.4	32.1	26.8	22.6	22.6
85°	17.9	20.5	22.6	24.7	26.3	26.8	23.1	18.9	15.3	12.1	11.6
87.5°	4.7	5.3	5.8	5.3	5.3	5.3	5.8	5.3	4.7	3.7	3.7
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)