

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: P648232

Luminaire Tested: **GALN-SA1B-835-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648232  
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-835-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 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: 3843.7 lumens  
Efficiency: N/A  
Efficacy: 87.4 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

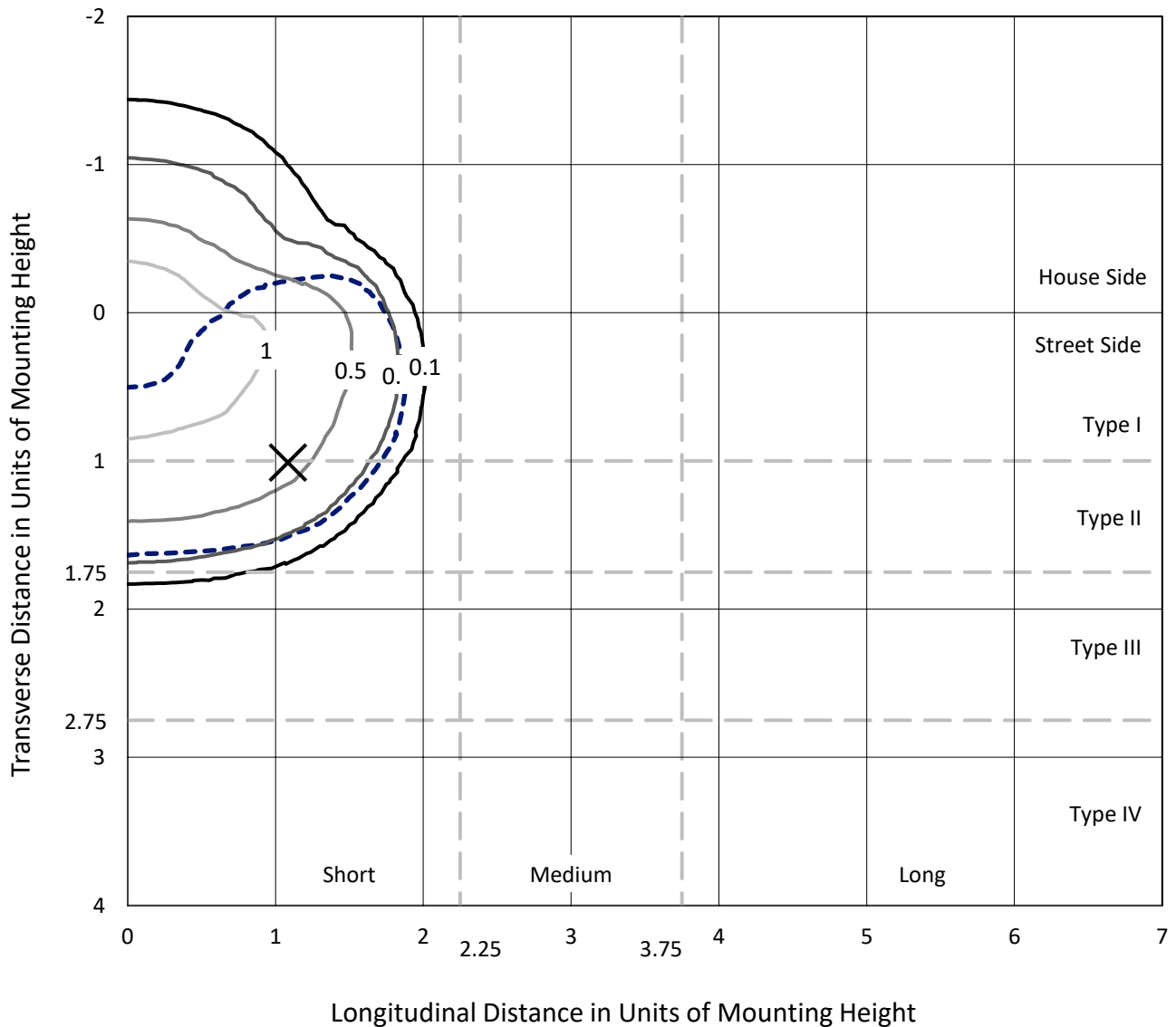
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

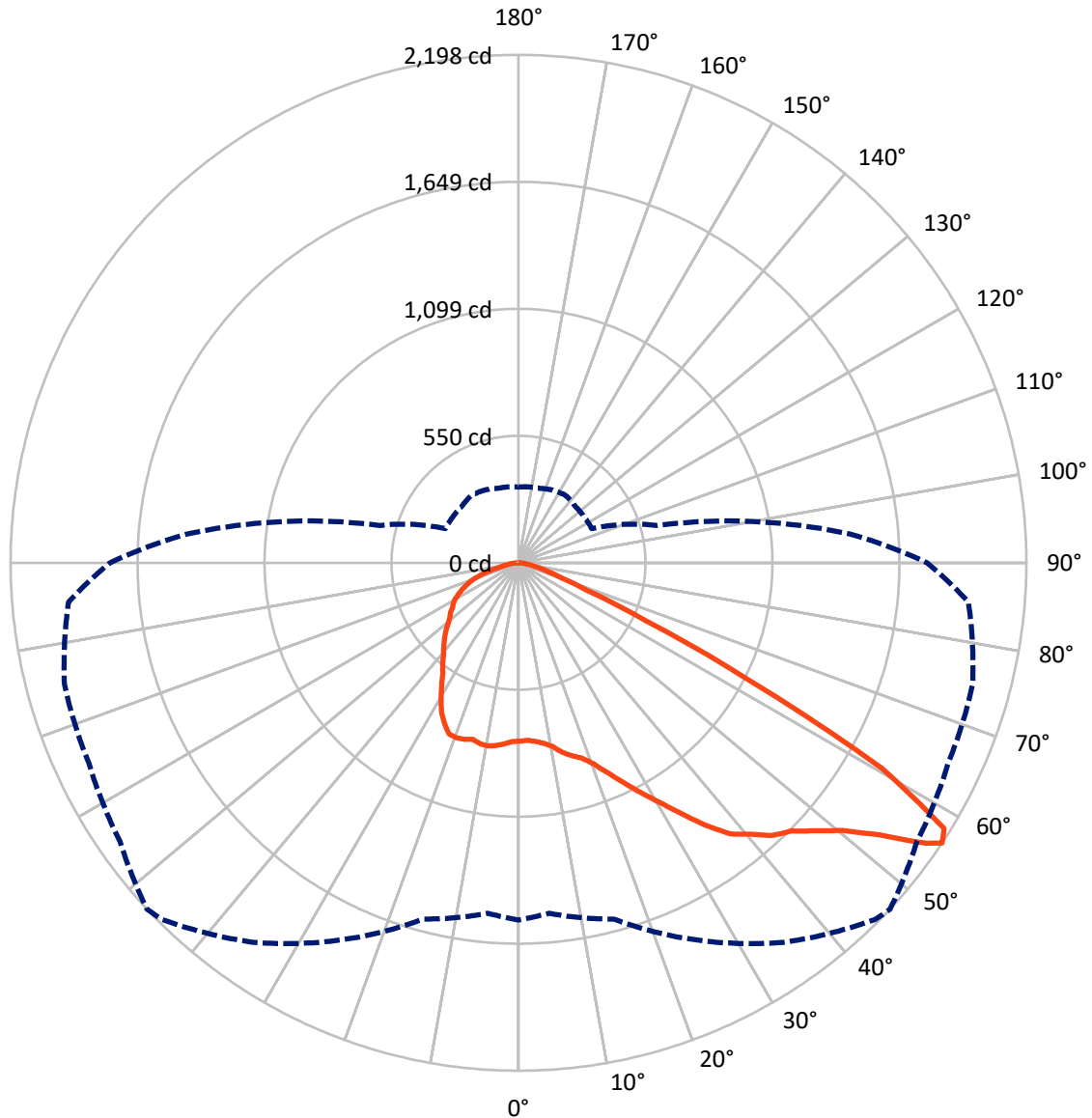
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	1218.0	0.0	1218.0
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	2625.7	0.0	2625.7
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	3843.7	0.0	3843.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.2	2.0
10°-20°	237.3	6.2
20°-30°	419.5	10.9
30°-40°	630.1	16.4
40°-50°	864.7	22.5
50°-60°	1030.2	26.8
60°-70°	440.9	11.5
70°-80°	124.8	3.2
80°-90°	21.0	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°	3843.7	100.0
0°-180°	3843.7	100.0

**Coefficient of Utilization**



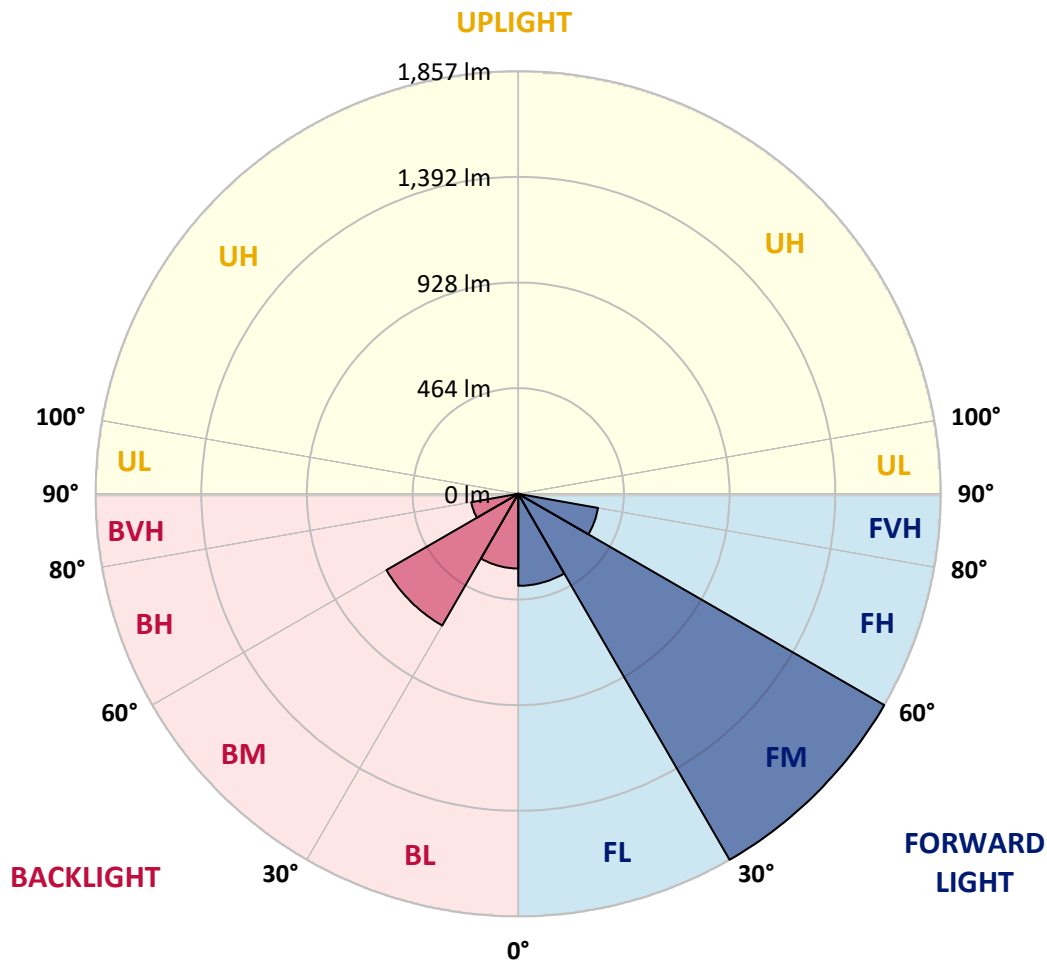
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	404.1	10.5			
FM (30°-60°)	1856.6	48.3			
FH (60°-80°)	356.1	9.3			G0/660
FVH (80°-90°)	8.9	0.2			G0/10
BL (0°-30°)	327.9	8.5	B1/500		
BM (30°-60°)	668.4	17.4	B1/1000		
BH (60°-80°)	209.6	5.5	B1/500		G1/500
BVH (80°-90°)	12.1	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°	772.1	772.1	772.1	772.1	772.1	772.1	772.1	772.1	772.1	772.1	772.1
2.5°	769.1	767.7	766.7	774.5	771.6	772.1	769.1	772.1	774.1	769.6	776.0
5°	767.7	772.1	768.2	770.6	777.0	775.0	777.0	782.8	781.4	779.9	778.0
7.5°	781.4	781.9	784.8	785.8	787.8	785.8	788.8	794.1	792.7	784.3	785.3
10°	801.0	802.0	802.5	807.9	811.3	811.8	808.4	803.4	803.0	814.2	806.4
12.5°	823.6	821.1	827.0	829.0	832.9	837.3	841.7	831.4	837.8	838.3	829.0
15°	856.4	858.9	852.0	852.0	853.5	853.9	866.2	861.3	860.4	855.0	858.9
17.5°	905.5	888.8	888.2	881.4	880.4	884.3	888.8	892.7	905.9	895.1	874.1
20°	941.2	945.2	930.9	922.6	924.1	932.9	928.5	946.1	955.4	937.8	917.2
22.5°	1004.4	991.2	994.6	976.0	977.5	986.8	986.3	1004.4	1009.8	981.9	952.0
25°	1047.1	1043.7	1046.6	1031.9	1033.9	1041.2	1053.0	1082.9	1074.0	1043.2	974.1
27.5°	1109.4	1102.5	1100.0	1094.6	1092.7	1112.3	1126.0	1157.9	1151.6	1106.5	1013.3
30°	1173.1	1168.7	1171.1	1149.1	1156.9	1198.6	1202.5	1246.1	1243.2	1163.8	1056.9
32.5°	1217.2	1219.7	1224.1	1211.8	1246.6	1280.0	1293.2	1342.7	1345.2	1262.3	1141.2
35°	1288.3	1280.0	1282.4	1296.6	1312.8	1373.6	1395.1	1428.0	1448.6	1365.7	1222.1
37.5°	1332.9	1341.7	1331.4	1354.0	1396.2	1469.1	1488.8	1522.6	1544.2	1467.7	1332.4
40°	1402.5	1388.3	1395.6	1411.8	1455.0	1550.1	1544.7	1579.5	1586.4	1554.5	1435.3
42.5°	1477.5	1470.6	1460.4	1497.1	1533.4	1602.5	1613.3	1597.2	1631.9	1639.3	1582.4
45°	1567.3	1575.6	1577.0	1578.0	1609.8	1670.1	1655.5	1641.2	1681.4	1734.9	1673.6
47.5°	1650.6	1624.1	1643.2	1669.7	1714.8	1715.2	1732.5	1698.6	1741.2	1788.8	1756.0
50°	1678.5	1665.8	1691.3	1741.2	1810.8	1818.2	1820.2	1772.2	1794.2	1831.9	1784.4
52.5°	1667.7	1663.3	1728.5	1806.0	1907.9	1945.2	1955.0	1895.6	1907.9	1890.8	1847.2
55°	1616.3	1629.5	1695.2	1853.0	2009.4	2124.6	2143.2	2068.2	1990.3	2003.5	1955.5
56°	1545.6	1522.6	1596.1	1799.6	2004.9	2182.9	2198.1	2104.5	2051.5	2034.4	1954.5
57.5°	1311.4	1281.5	1378.0	1619.2	1893.7	2160.8	2172.1	2119.7	2041.3	2006.4	1811.9
60°	767.7	782.4	904.9	1116.7	1460.8	1771.6	1809.4	1847.6	1795.2	1639.3	1348.6
62.5°	370.6	361.3	449.1	640.3	890.3	1131.0	1119.7	1227.0	1285.8	1164.8	851.5
65°	194.1	193.2	245.1	349.5	489.2	594.1	604.5	662.3	743.1	600.0	432.4
67.5°	142.7	146.6	172.6	245.6	314.7	321.1	319.6	348.5	356.4	301.5	265.7
70°	111.7	113.7	132.9	186.7	234.4	209.8	205.4	208.8	231.8	241.7	229.9
72.5°	80.9	82.8	99.0	126.0	146.6	143.1	146.1	165.2	193.6	203.9	191.7
75°	53.9	55.4	64.2	77.0	86.8	93.6	99.0	121.1	147.5	153.5	147.5
77.5°	37.3	38.8	44.6	54.4	55.4	59.8	61.8	72.0	88.2	95.6	91.7
80°	21.1	21.1	24.0	28.0	34.3	40.2	41.2	49.5	56.8	61.8	62.7
82.5°	9.8	10.3	12.8	17.1	22.6	28.0	28.9	34.3	39.7	44.6	46.1
85°	4.9	5.4	7.4	10.3	13.7	16.7	16.2	16.7	17.6	16.7	17.1
87.5°	1.5	1.5	2.0	2.4	2.0	2.4	2.4	3.0	3.4	3.9	4.4
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°	772.1	772.1	772.1	772.1	772.1	772.1	772.1	772.1	772.1	772.1	772.1
2.5°	776.5	778.0	768.2	777.5	774.1	773.5	780.4	779.5	781.9	780.9	775.0
5°	777.0	773.5	783.9	774.5	778.9	788.2	781.9	796.6	789.3	794.1	783.4
7.5°	792.2	793.2	791.2	795.1	793.2	797.6	794.1	797.6	791.7	792.2	802.0
10°	805.4	802.5	805.9	801.0	804.5	803.0	795.1	792.7	794.7	792.2	798.6
12.5°	829.9	824.6	822.1	816.2	812.3	797.6	785.3	778.5	787.8	789.3	786.3
15°	855.0	855.4	844.2	830.9	806.4	784.3	787.3	789.7	789.7	793.6	786.3
17.5°	870.6	870.6	860.4	833.9	808.8	796.1	793.2	785.3	778.5	777.5	777.0
20°	898.1	889.7	866.2	833.3	807.9	802.0	779.9	761.3	747.1	742.2	741.7
22.5°	929.4	908.4	875.6	834.4	806.4	798.1	756.9	729.0	703.4	692.6	694.1
25°	958.4	924.6	881.0	829.9	801.0	760.8	714.7	676.0	649.6	640.7	636.3
27.5°	978.4	941.7	881.0	833.9	780.9	719.2	672.0	622.6	599.5	593.7	594.6
30°	1005.5	963.2	896.1	825.5	740.7	665.2	608.9	576.5	562.7	557.9	561.3
32.5°	1068.6	1019.6	917.2	805.4	693.2	611.3	565.7	547.6	527.5	517.6	514.3
35°	1137.3	1073.1	937.8	771.6	639.7	562.3	533.8	517.2	493.1	482.4	484.4
37.5°	1234.4	1141.7	939.3	715.7	581.9	534.8	508.9	482.9	463.2	446.6	441.7
40°	1365.2	1235.3	935.8	656.9	535.3	502.5	483.3	451.0	428.9	417.2	419.6
42.5°	1480.4	1345.2	921.6	590.2	493.1	480.4	458.8	427.0	405.4	393.1	392.2
45°	1577.5	1426.1	894.7	533.4	457.9	455.9	430.9	406.4	389.2	378.0	382.9
47.5°	1667.2	1491.2	853.9	476.5	425.5	429.4	405.4	390.2	379.4	369.1	368.6
50°	1699.6	1490.3	818.2	429.4	399.6	397.5	396.6	380.4	369.1	360.3	364.3
52.5°	1753.5	1507.0	779.5	397.1	376.0	376.5	379.9	368.2	355.4	350.0	354.9
55°	1831.0	1509.4	694.1	359.3	356.4	359.8	359.8	352.0	341.2	336.8	334.3
56°	1767.7	1436.3	622.6	349.5	346.6	346.6	355.9	347.1	333.9	330.4	327.5
57.5°	1630.4	1258.4	521.1	337.8	333.3	340.2	345.1	335.8	323.5	318.6	321.6
60°	1124.5	851.5	391.7	312.3	312.3	323.5	327.5	313.7	308.3	307.9	304.0
62.5°	656.4	496.1	306.4	289.2	290.2	299.5	302.5	294.6	287.8	296.1	300.0
65°	348.0	296.1	262.8	264.7	265.2	272.6	285.3	284.8	284.3	286.8	287.3
67.5°	252.0	246.1	238.7	236.8	237.7	243.1	255.9	265.7	265.2	259.3	254.9
70°	224.5	216.2	211.8	212.3	208.4	214.7	225.0	231.4	220.1	213.2	210.3
72.5°	186.7	184.3	181.3	181.9	174.1	172.6	160.8	160.8	157.9	155.9	159.3
75°	142.7	141.6	143.1	140.7	132.3	123.6	116.7	110.3	100.5	96.5	94.6
77.5°	90.2	93.2	96.5	91.2	87.8	81.4	74.5	68.1	60.3	55.9	55.9
80°	61.3	63.7	66.2	65.2	61.3	55.4	50.0	43.1	37.7	34.3	33.8
82.5°	46.6	48.5	52.0	48.1	44.1	39.2	34.8	29.9	25.0	21.1	21.1
85°	16.7	19.1	21.1	23.0	24.5	25.0	21.5	17.6	14.3	11.3	10.8
87.5°	4.4	4.9	5.4	4.9	4.9	4.9	5.4	4.9	4.4	3.4	3.4
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)