

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: P450823

Luminaire Tested: **GALN-SA1C-827-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5352 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

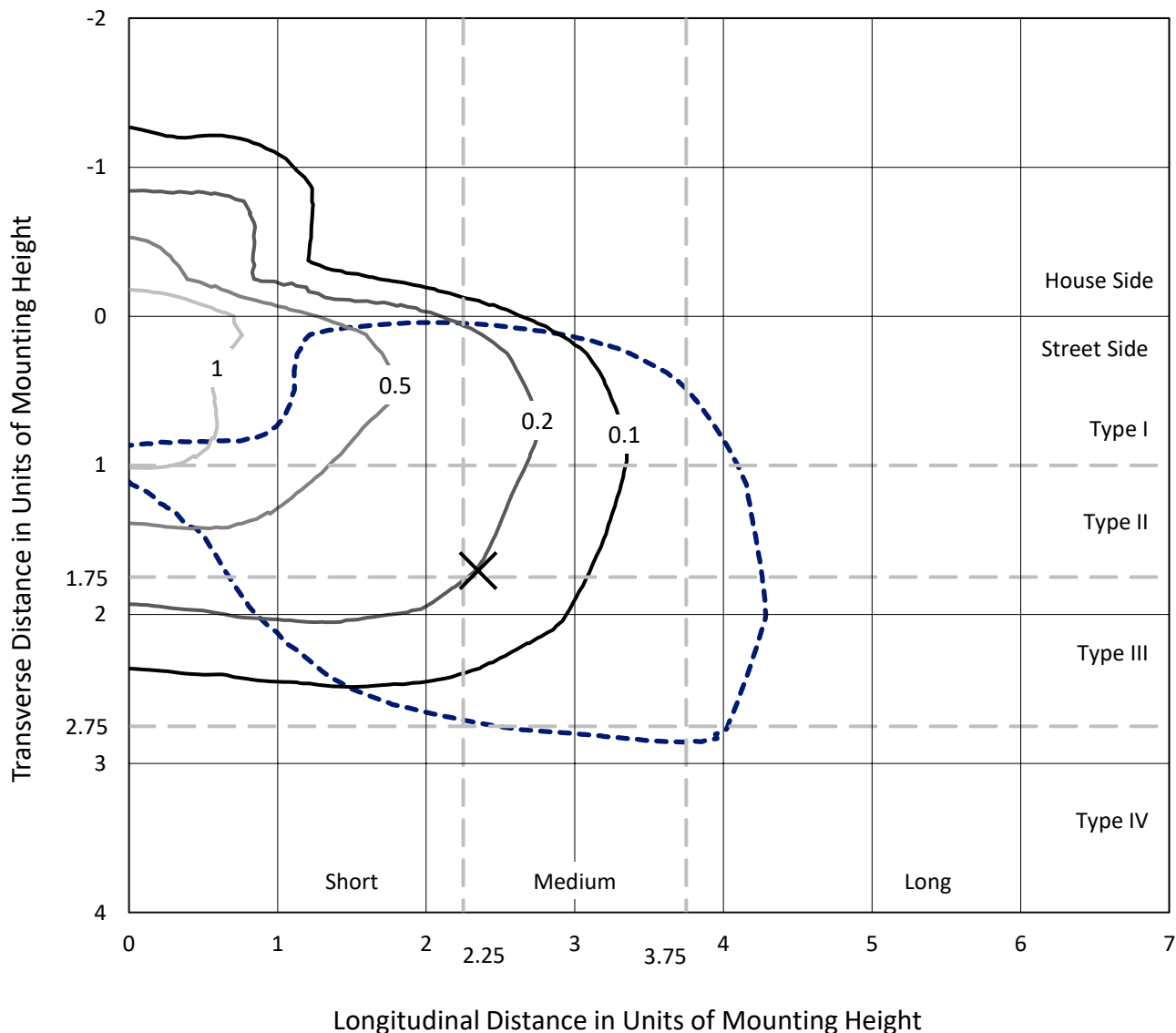
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

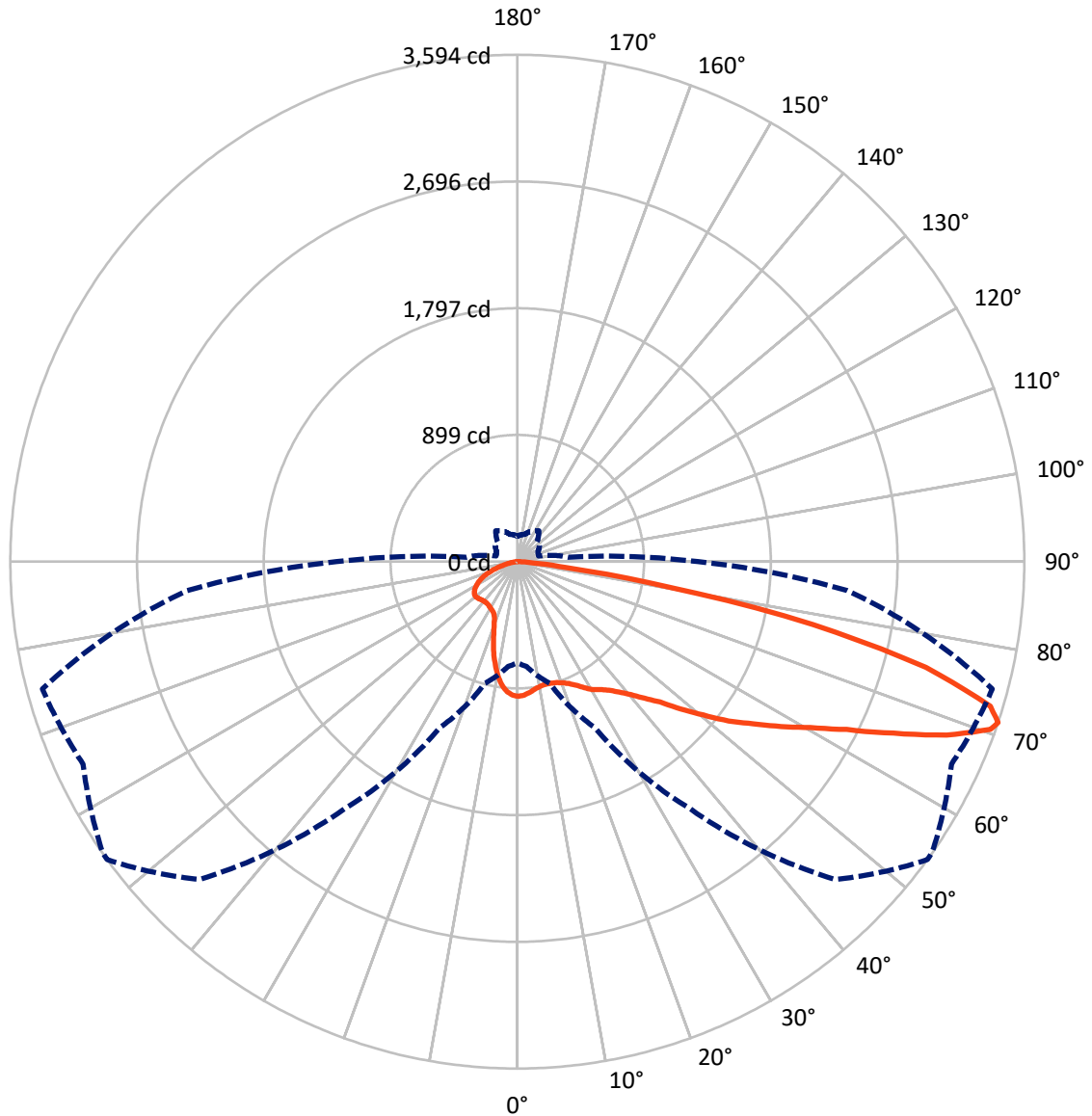
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	966.3	0.0	966.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4385.7	0.0	4385.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	5352.0	0.0	5352.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	1.6
10°-20°	224.7	4.2
20°-30°	374.1	7.0
30°-40°	553.2	10.3
40°-50°	779.2	14.6
50°-60°	1043.4	19.5
60°-70°	1315.1	24.6
70°-80°	898.2	16.8
80°-90°	79.0	1.5
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°	5352.0	100.0
0°-180°	5352.0	100.0



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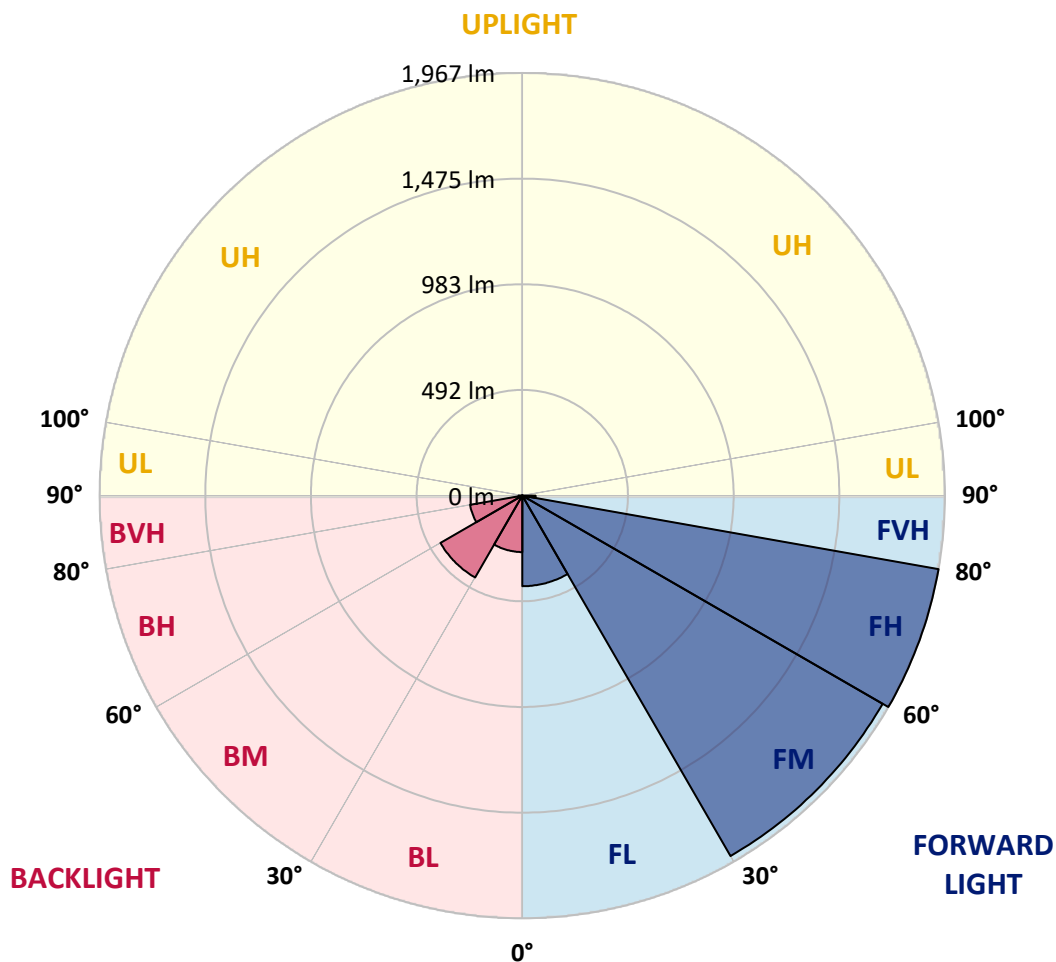
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	421.3	7.9			
FM (30°-60°)	1936.2	36.2			
FH (60°-80°)	1966.5	36.7			G2/5000
FVH (80°-90°)	61.7	1.2			G1/100
BL (0°-30°)	262.6	4.9	B1/500		
BM (30°-60°)	439.6	8.2	B1/1000		
BH (60°-80°)	246.8	4.6	B1/500		G1/500
BVH (80°-90°)	17.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9
2.5°	922.5	926.8	928.0	930.9	937.0	941.9	946.8	946.2	953.1	956.0	958.6
5°	881.4	882.6	886.9	892.7	903.4	917.0	930.3	930.6	947.6	961.2	967.9
7.5°	851.4	855.1	858.0	864.1	875.4	890.1	911.2	913.0	943.3	970.2	984.4
10°	831.7	836.1	839.2	846.8	858.0	874.5	897.3	900.5	940.1	984.4	1009.2
12.5°	813.8	818.1	821.0	830.9	845.6	865.8	891.6	895.3	941.3	1000.8	1036.4
15°	824.8	828.3	827.1	830.0	839.8	862.9	893.9	897.6	945.6	1016.7	1063.3
17.5°	873.6	876.5	867.0	856.0	851.4	868.4	901.1	905.2	954.3	1033.2	1090.8
20°	945.6	953.4	932.6	908.0	885.8	888.1	916.1	920.5	966.4	1049.7	1118.8
22.5°	1039.3	1045.1	1019.6	979.2	938.1	917.0	938.7	941.3	984.7	1071.1	1149.4
25°	1149.4	1152.9	1117.6	1065.6	1006.3	966.4	969.6	974.2	1014.7	1095.4	1176.6
27.5°	1256.4	1267.4	1226.6	1163.0	1085.0	1018.5	1012.1	1015.0	1047.4	1109.0	1195.4
30°	1383.3	1382.4	1339.4	1265.7	1165.6	1075.1	1052.3	1051.7	1065.0	1115.6	1209.0
32.5°	1484.5	1496.3	1454.1	1373.8	1257.8	1133.8	1080.1	1078.9	1078.6	1127.2	1229.2
35°	1599.6	1601.3	1562.6	1481.6	1357.6	1207.5	1118.8	1113.0	1106.4	1152.0	1256.7
37.5°	1702.5	1710.6	1675.0	1584.2	1455.6	1284.2	1172.0	1168.2	1148.0	1195.1	1300.6
40°	1782.8	1788.9	1767.5	1681.1	1552.1	1366.8	1239.6	1232.7	1208.1	1265.7	1359.3
42.5°	1809.1	1821.6	1830.0	1787.5	1663.2	1464.8	1322.9	1314.2	1295.4	1372.6	1427.0
45°	1811.2	1830.8	1875.1	1877.1	1774.7	1582.2	1420.0	1414.0	1412.5	1509.6	1522.1
47.5°	1795.8	1815.8	1890.1	1930.3	1874.2	1700.7	1560.2	1550.7	1551.6	1679.1	1628.8
50°	1758.8	1782.6	1872.7	1964.4	1952.0	1823.9	1708.3	1705.1	1723.0	1872.5	1739.5
52.5°	1689.2	1717.8	1854.8	1985.8	2009.8	1930.0	1876.5	1867.5	1912.9	2082.3	1860.6
55°	1496.3	1539.4	1789.2	1997.6	2064.7	2031.5	2028.0	2044.2	2104.3	2311.3	1993.9
57.5°	1395.7	1428.1	1646.7	1999.7	2134.1	2149.4	2204.9	2209.0	2314.2	2554.4	2144.5
60°	1340.8	1369.4	1568.6	1986.4	2230.9	2295.4	2385.9	2400.3	2519.2	2817.8	2300.6
62.5°	1292.8	1317.4	1521.8	1940.4	2340.2	2511.9	2620.3	2627.3	2751.9	3108.6	2454.7
65°	1179.8	1207.8	1427.5	1894.4	2434.5	2782.5	2931.4	2923.3	2999.6	3359.6	2551.3
67.5°	1027.4	1063.0	1251.5	1735.7	2481.0	3078.3	3281.8	3271.7	3244.2	3524.1	2579.0
70°	832.9	852.0	1026.3	1461.4	2295.1	3233.5	3558.5	3547.8	3395.7	3545.7	2447.8
71°	716.7	746.4	893.6	1298.0	2140.4	3186.1	3594.0	3591.1	3396.0	3485.9	2348.9
72.5°	559.4	577.6	707.7	1005.8	1819.3	2916.7	3506.1	3517.1	3322.3	3319.7	2145.1
75°	353.9	361.9	444.0	592.1	998.2	2065.6	2993.0	3022.8	2949.9	2717.2	1595.2
77.5°	205.5	216.0	266.0	348.9	431.3	1121.1	2141.6	2174.0	2049.7	1496.1	653.1
80°	119.7	131.2	175.2	202.7	198.0	416.0	1090.5	1145.7	887.5	377.8	183.3
82.5°	66.5	74.3	123.2	123.4	105.5	135.9	343.2	359.1	253.2	152.4	74.9
85°	48.3	54.6	79.5	72.0	50.6	58.4	119.4	125.2	102.3	64.2	24.3
87.5°	17.1	24.3	43.7	34.7	13.9	12.1	34.4	28.0	26.0	17.9	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9
2.5°	960.1	960.7	957.8	952.6	947.4	940.7	933.2	927.4	924.8	924.5	924.2
5°	970.5	971.9	960.9	944.8	926.8	904.9	886.1	864.7	859.2	850.5	853.1
7.5°	987.3	986.4	964.7	930.3	888.4	841.8	802.5	779.7	756.0	749.3	749.6
10°	1011.2	1005.8	964.7	900.8	830.9	761.8	706.8	672.1	653.4	637.7	632.0
12.5°	1036.7	1022.8	955.5	859.5	756.8	672.1	613.2	566.3	554.2	541.5	541.8
15°	1061.0	1037.8	937.2	801.4	677.1	576.5	519.2	491.2	487.4	488.9	488.6
17.5°	1082.9	1048.5	909.5	736.6	584.0	494.3	464.0	466.0	476.1	483.4	484.2
20°	1105.2	1054.9	868.1	649.9	496.1	444.6	445.8	461.7	477.0	486.8	488.3
22.5°	1126.3	1057.8	819.6	566.0	432.5	423.5	440.6	457.6	472.7	482.2	483.7
25°	1140.2	1051.1	750.8	478.4	401.3	416.0	433.9	448.4	461.1	470.9	473.2
27.5°	1143.9	1029.8	665.5	407.6	386.8	408.8	425.3	436.0	445.8	455.0	456.8
30°	1141.9	998.2	571.8	366.0	378.4	400.4	413.1	420.9	432.8	440.0	441.4
32.5°	1138.7	961.5	474.1	343.7	371.5	392.6	400.1	407.0	406.8	403.9	405.9
35°	1139.9	917.6	394.9	330.4	365.4	386.8	393.2	384.5	359.6	358.5	357.3
37.5°	1146.0	874.2	337.4	321.2	362.2	385.9	389.4	349.5	327.5	317.4	314.8
40°	1161.6	823.6	299.5	314.2	361.9	392.6	372.4	331.9	289.7	270.0	268.6
42.5°	1182.4	773.9	276.4	309.9	365.4	402.7	365.4	307.0	261.1	249.5	247.8
45°	1213.3	717.0	263.7	307.9	370.6	406.5	363.1	288.8	249.5	240.2	240.2
47.5°	1248.3	662.6	256.7	306.4	377.3	403.9	342.6	283.0	244.0	245.2	250.6
50°	1283.0	615.5	251.5	303.3	383.0	402.4	334.2	282.7	245.4	260.2	270.0
52.5°	1323.2	582.2	245.2	298.1	383.0	393.2	331.6	288.5	249.5	253.8	258.2
55°	1371.7	571.8	237.1	286.8	376.1	370.0	330.1	296.9	252.4	242.3	244.0
57.5°	1435.9	588.6	229.3	272.6	360.2	346.0	329.6	299.2	245.7	237.3	235.6
60°	1510.5	621.8	226.9	258.2	338.5	325.5	326.1	292.6	236.5	227.8	229.3
62.5°	1562.8	641.8	225.5	247.2	314.8	303.0	317.7	284.5	232.4	224.9	226.4
65°	1562.8	617.5	212.2	230.4	284.2	275.8	307.6	274.3	227.2	218.6	217.1
67.5°	1503.6	546.7	192.0	205.3	250.4	244.9	293.4	262.2	219.4	212.8	209.3
70°	1349.2	414.6	166.5	175.8	207.6	212.5	275.2	245.7	206.4	198.3	193.1
71°	1281.3	361.1	155.8	160.7	191.1	198.3	266.5	238.8	200.6	189.1	179.8
72.5°	1150.3	304.1	139.6	141.7	163.3	176.3	248.3	225.5	189.6	173.2	162.8
75°	873.9	222.0	112.5	111.3	120.8	139.9	210.2	200.9	166.2	144.0	137.9
77.5°	377.6	120.8	84.1	85.0	82.1	106.1	165.4	172.6	142.5	117.1	111.6
80°	114.5	69.7	57.5	58.7	54.9	71.1	116.5	135.3	114.5	91.1	83.5
82.5°	58.7	41.6	39.3	38.7	35.0	40.2	70.5	92.5	81.8	57.0	50.3
85°	25.4	22.3	19.4	18.8	16.5	14.5	25.2	46.3	43.4	31.8	30.4
87.5°	6.4	5.8	3.8	3.5	2.0	0.3	0.0	0.0	0.0	0.0	0.0
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)