

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: P450819

Luminaire Tested: **GALN-SA1C-827-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450819  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
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-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5330 lumens  
Efficiency: N/A  
Efficacy: 93.5 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

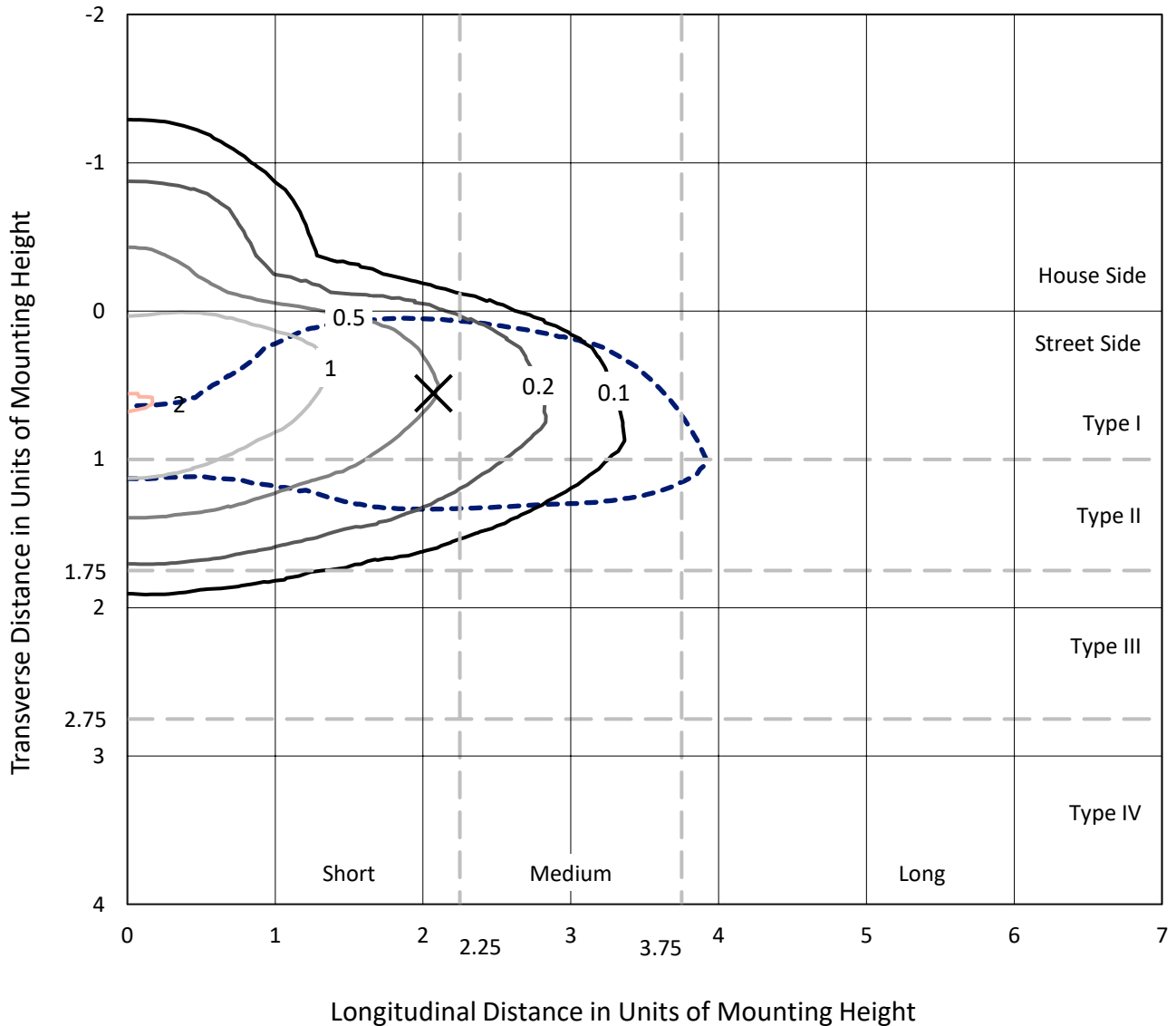
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

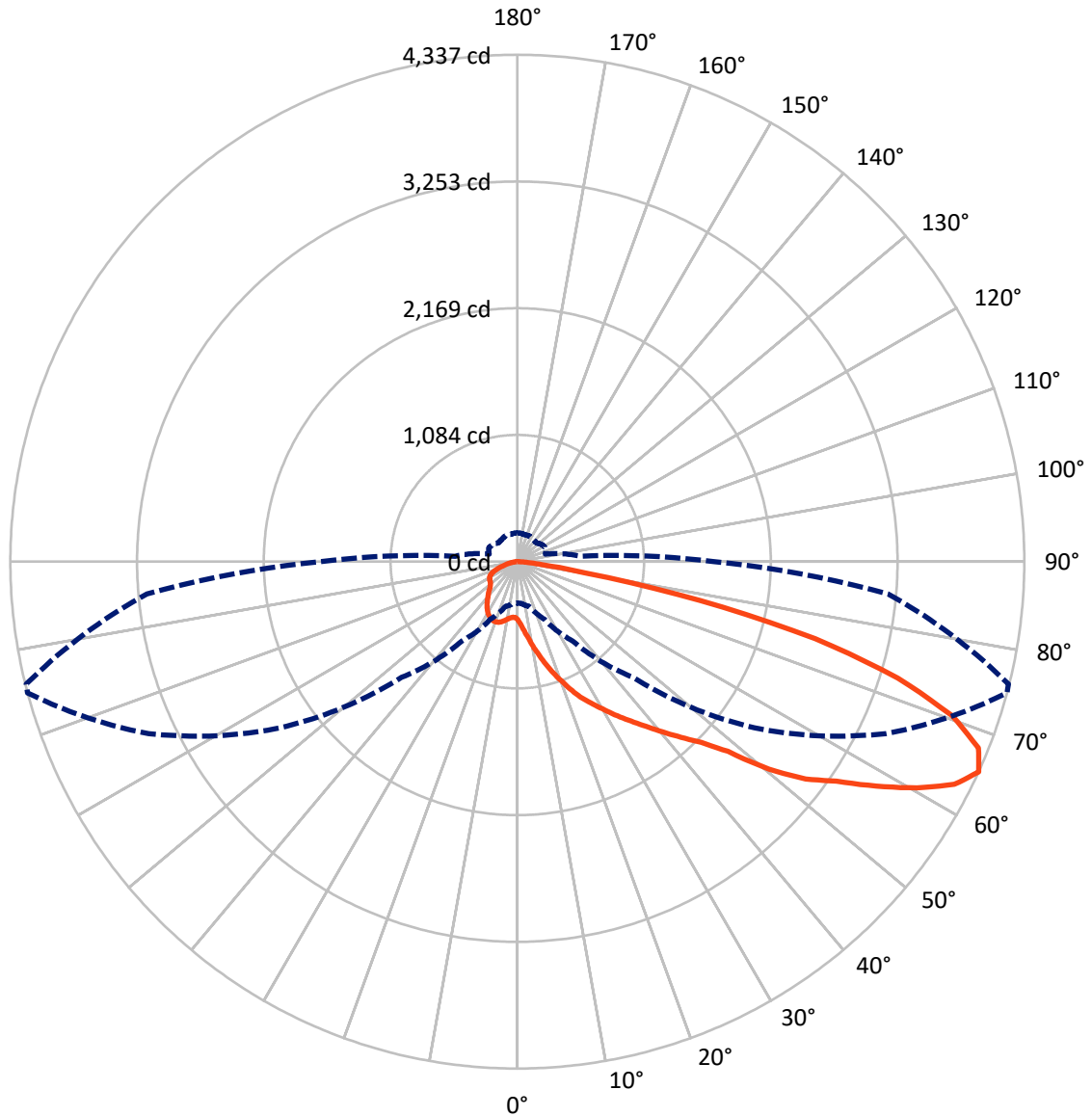
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	896.0	0.0	896.0
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	4434.0	0.0	4434.0
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	5330.0	0.0	5330.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.2	1.1
10°-20°	235.7	4.4
20°-30°	455.2	8.5
30°-40°	739.4	13.9
40°-50°	1017.2	19.1
50°-60°	1200.9	22.5
60°-70°	1052.2	19.7
70°-80°	502.3	9.4
80°-90°	66.8	1.3
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°	5330.0	100.0
0°-180°	5330.0	100.0

**Coefficient of Utilization**

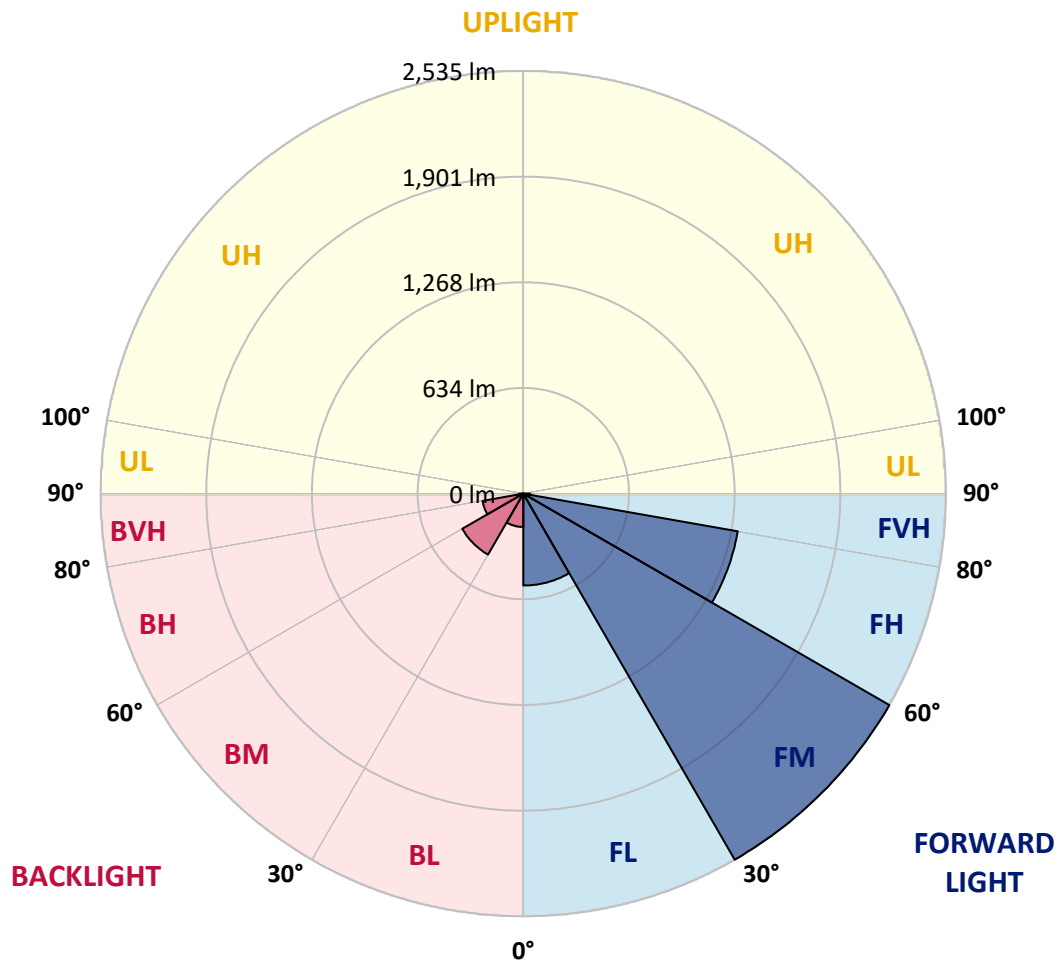


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	551.0	10.3			
FM (30°-60°)	2535.1	47.6			
FH (60°-80°)	1306.1	24.5			G1/1800
FVH (80°-90°)	41.8	0.8			G1/100
BL (0°-30°)	200.0	3.8	B1/500		
BM (30°-60°)	422.5	7.9	B1/1000		
BH (60°-80°)	248.5	4.7	B1/500		G1/500
BVH (80°-90°)	25.1	0.5			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°	76°	85°
0°	495.2	495.2	495.2	495.2	495.2	495.2	495.2	495.2	495.2	495.2	495.2
2.5°	658.0	653.6	649.0	636.3	622.7	607.4	585.4	564.3	536.3	535.4	514.6
5°	840.4	837.5	817.0	805.1	773.6	731.7	696.1	640.9	589.8	583.7	543.2
7.5°	1008.1	996.8	989.0	967.6	936.4	882.6	813.8	739.2	653.6	645.6	578.5
10°	1134.4	1133.3	1129.2	1110.7	1087.3	1033.8	957.5	850.5	734.6	718.7	621.3
12.5°	1229.0	1229.8	1229.2	1229.0	1212.2	1166.8	1084.1	971.4	816.4	805.1	670.7
15°	1291.1	1299.8	1303.3	1317.7	1319.2	1288.8	1217.7	1088.2	908.6	891.9	723.9
17.5°	1332.2	1336.5	1352.7	1377.3	1397.2	1391.7	1328.4	1196.3	1002.9	974.8	779.1
20°	1371.5	1379.0	1391.4	1425.0	1460.2	1476.4	1431.9	1307.0	1096.3	1078.3	840.1
22.5°	1453.3	1464.0	1468.3	1485.4	1515.5	1544.1	1523.8	1413.1	1198.6	1174.3	904.9
25°	1591.8	1603.0	1590.9	1586.9	1596.7	1610.9	1606.5	1513.1	1295.2	1260.5	966.2
27.5°	1772.2	1773.6	1749.9	1727.4	1703.1	1695.8	1682.5	1601.9	1379.0	1350.1	1027.7
30°	1965.9	1958.9	1919.6	1878.8	1837.8	1797.3	1759.2	1687.5	1472.4	1439.1	1088.2
32.5°	2145.7	2141.9	2098.3	2035.0	1965.6	1927.4	1850.2	1773.9	1572.4	1540.3	1150.3
35°	2280.4	2285.9	2237.9	2168.8	2093.1	2059.2	1961.8	1864.7	1675.9	1640.9	1218.0
37.5°	2376.1	2373.2	2330.7	2270.9	2204.4	2174.9	2092.2	1963.8	1787.2	1753.7	1292.0
40°	2410.2	2408.5	2377.0	2333.3	2291.1	2280.7	2228.7	2070.8	1914.7	1875.4	1381.0
42.5°	2388.5	2392.3	2371.5	2359.6	2351.8	2359.3	2364.2	2211.0	2053.7	2017.6	1477.6
45°	2322.0	2320.0	2317.1	2336.5	2380.4	2429.9	2498.4	2343.4	2204.9	2176.0	1607.1
47.5°	2203.2	2217.7	2224.9	2278.4	2374.4	2491.4	2652.8	2520.9	2424.4	2399.2	1804.5
50°	2037.0	2048.5	2091.3	2186.4	2329.5	2514.6	2803.7	2811.2	2790.4	2743.2	2019.1
52.5°	1777.4	1795.3	1883.5	2057.8	2237.6	2505.0	2895.0	3060.1	3087.6	3052.3	2230.4
55°	1486.8	1512.0	1605.1	1833.7	2111.0	2453.0	2958.0	3204.4	3313.9	3281.3	2433.9
57.5°	1202.4	1229.0	1324.6	1546.1	1890.1	2337.9	2999.4	3365.1	3622.1	3579.6	2687.2
60°	901.1	928.9	1011.0	1239.1	1575.6	2113.0	2971.3	3504.4	3930.0	3911.8	2940.7
62.5°	581.4	612.0	683.4	872.2	1211.0	1805.7	2821.3	3581.3	4196.5	4174.6	3125.7
65°	354.1	357.6	396.9	541.5	828.8	1398.1	2478.1	3479.3	4337.0	4330.4	3182.1
67.5°	229.0	234.5	252.4	324.4	497.0	971.1	1981.5	3142.5	4254.9	4252.6	3065.6
70°	193.4	195.1	203.2	218.8	288.8	588.9	1391.4	2605.6	3943.0	3943.0	2785.5
72.5°	172.9	175.2	178.1	183.0	206.1	333.6	830.3	2028.3	3404.4	3427.0	2370.9
75°	157.0	156.4	158.1	159.0	175.8	218.0	429.3	1500.1	2633.7	2588.6	1717.0
77.5°	134.4	135.3	134.4	138.2	155.2	165.9	218.0	1006.6	1596.1	1537.7	861.8
80°	110.4	111.9	113.3	115.6	132.7	126.0	131.0	458.8	590.3	577.9	266.3
82.5°	83.0	85.0	87.3	92.8	104.4	83.3	82.7	196.0	213.1	195.1	98.0
85°	33.5	39.6	59.8	65.3	65.6	45.7	50.9	81.8	87.0	85.0	38.4
87.5°	7.8	9.3	19.4	29.2	26.9	17.1	18.8	26.6	30.4	28.0	13.0
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°	495.2	495.2	495.2	495.2	495.2	495.2	495.2	495.2	495.2	495.2	495.2
2.5°	505.1	494.9	477.6	464.3	454.8	446.4	441.2	438.0	436.8	436.5	436.8
5°	522.1	504.2	476.7	459.4	449.8	444.3	441.2	440.9	441.2	441.5	440.6
7.5°	545.5	519.8	483.9	467.8	460.5	456.5	455.0	454.5	454.8	454.5	454.5
10°	576.7	541.5	498.1	481.3	475.3	470.7	468.3	466.9	465.7	464.6	464.0
12.5°	611.2	565.5	513.4	497.2	488.6	481.3	476.1	472.4	469.8	467.2	466.6
15°	649.6	590.9	530.5	507.9	495.5	484.8	475.9	469.8	465.2	461.4	461.1
17.5°	686.3	614.9	542.1	512.9	494.6	479.6	467.8	459.4	453.6	448.7	448.1
20°	725.6	637.7	547.3	509.7	486.0	467.8	452.1	442.0	435.4	429.9	429.0
22.5°	765.2	657.1	546.7	499.6	470.9	449.5	433.1	422.4	414.6	409.1	407.0
25°	803.1	672.7	539.5	483.4	450.1	427.9	411.1	401.3	394.3	387.7	387.7
27.5°	837.2	682.0	525.9	463.7	428.7	405.3	392.0	383.1	376.7	372.4	369.8
30°	870.8	686.3	507.4	438.9	406.2	386.2	375.5	370.3	364.6	359.6	359.1
32.5°	900.8	685.5	484.2	414.6	384.8	370.6	366.3	362.2	356.2	349.2	347.5
35°	930.0	679.7	456.8	388.0	366.9	361.4	362.5	356.7	345.8	337.1	335.6
37.5°	961.8	669.3	426.7	366.3	351.8	357.0	359.9	347.2	329.3	315.7	312.5
40°	998.5	657.4	395.5	344.6	340.0	353.0	353.0	329.6	305.0	296.6	294.3
42.5°	1041.6	647.6	369.5	326.4	330.1	343.2	341.7	306.2	296.0	291.7	290.5
45°	1109.8	644.1	342.6	310.5	322.1	331.6	319.7	298.1	292.3	288.8	287.7
47.5°	1217.7	648.2	318.9	298.6	312.8	320.0	295.2	292.6	288.5	283.6	283.0
50°	1317.7	644.4	302.1	292.0	304.7	306.2	285.1	285.9	283.6	278.1	277.0
52.5°	1399.5	632.5	291.4	288.5	297.8	281.9	275.5	278.7	277.8	270.9	269.7
55°	1489.4	625.3	286.2	288.5	293.1	260.8	266.5	271.2	270.0	265.1	264.8
57.5°	1598.4	626.8	282.4	289.4	288.5	250.1	257.6	263.1	262.8	261.3	261.3
60°	1710.0	627.3	276.7	289.1	283.0	241.7	248.3	256.1	256.7	257.6	257.6
62.5°	1747.0	602.2	265.4	283.9	270.9	233.6	239.7	250.4	249.8	252.1	252.4
65°	1677.9	532.5	248.6	272.0	255.3	227.8	233.0	242.8	239.7	245.7	246.9
67.5°	1527.3	440.6	222.6	250.6	237.9	221.7	228.7	232.4	226.7	238.5	238.8
70°	1320.0	344.0	189.6	220.3	218.3	215.4	225.2	219.4	211.3	225.8	222.9
72.5°	1103.8	262.8	151.5	180.1	192.0	205.8	219.1	202.7	191.4	195.7	190.5
75°	829.1	194.3	121.7	141.1	159.9	192.2	213.6	182.4	165.1	161.0	159.9
77.5°	422.7	126.9	91.1	105.5	120.0	173.7	206.1	158.7	136.7	130.4	127.5
80°	150.9	78.9	64.2	72.9	80.9	149.5	180.1	131.3	106.1	104.9	106.1
82.5°	70.0	50.9	43.1	47.7	48.0	99.7	137.3	98.0	80.7	122.6	103.5
85°	30.1	25.4	24.3	23.7	22.0	44.5	77.2	52.6	82.1	36.7	33.8
87.5°	9.0	10.1	9.0	6.6	4.9	4.9	7.8	2.9	2.0	1.4	1.4
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)