

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: P527387

Luminaire Tested: **GALN-SA2B-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527387  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-827-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5116 lumens  
Efficiency: N/A  
Efficacy: 62.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

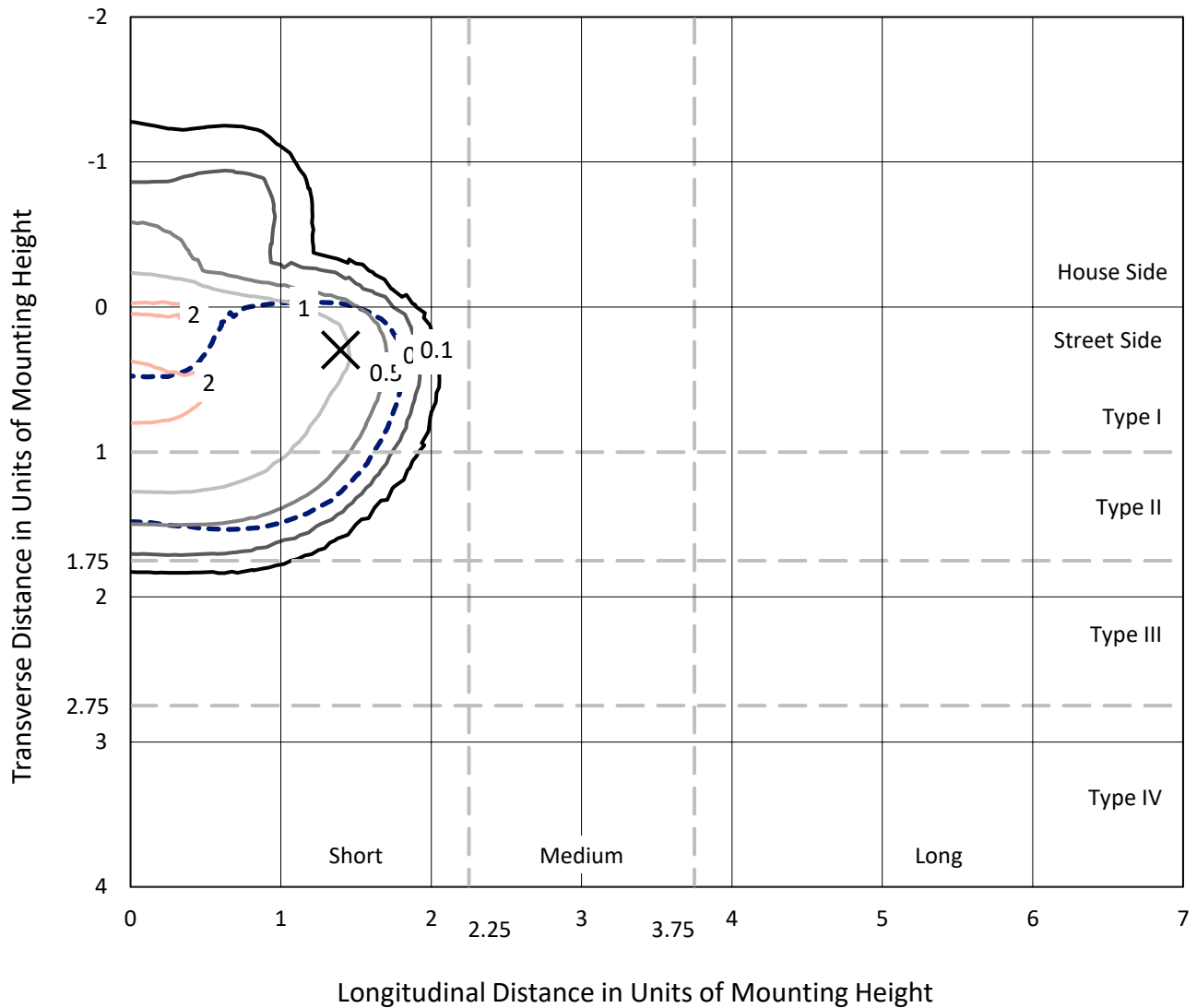
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

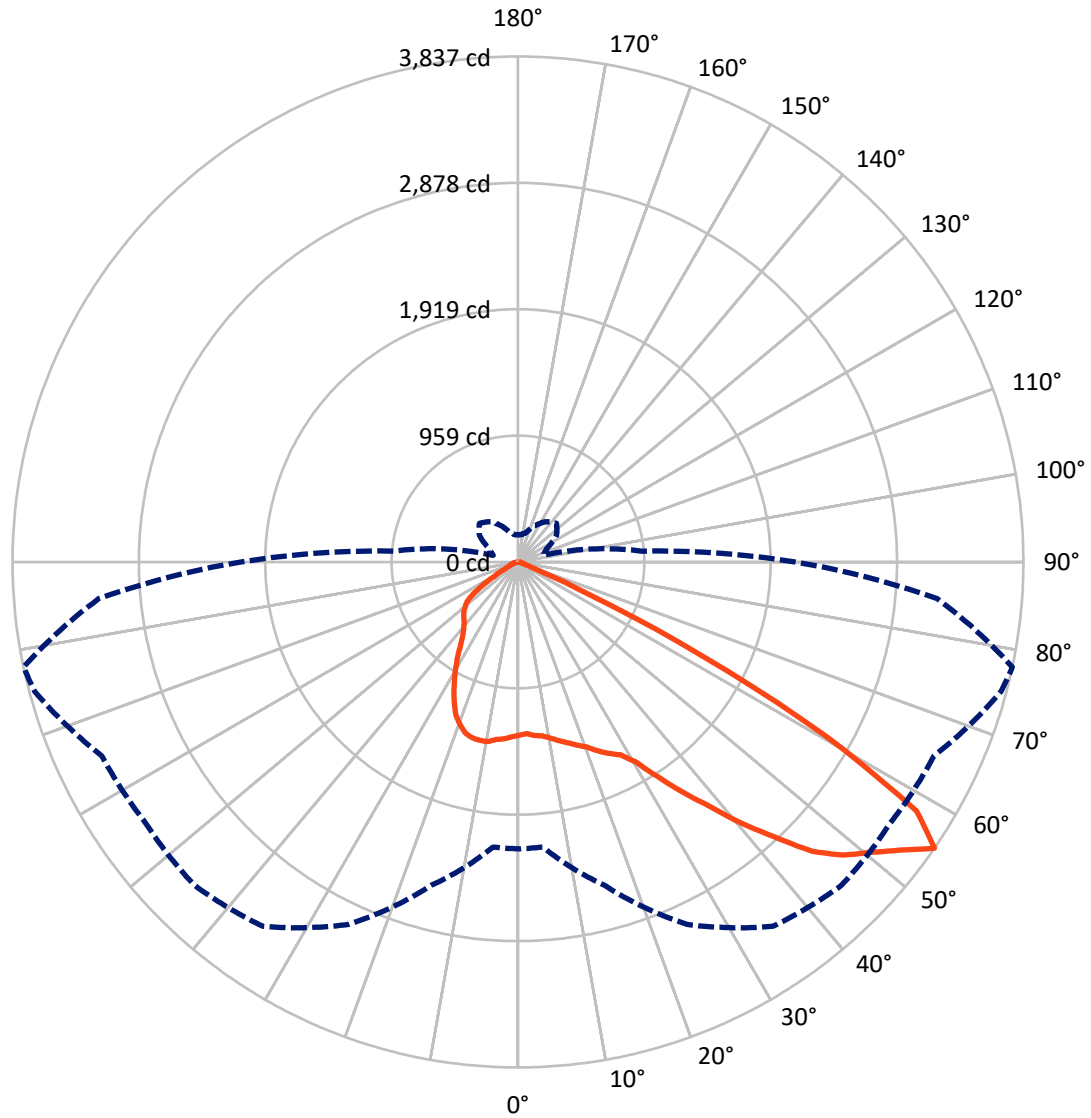
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	950.2	0.0	950.2
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	4165.8	0.0	4165.8
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	5116.0	0.0	5116.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.3	2.3
10°-20°	310.4	6.1
20°-30°	544.1	10.6
30°-40°	897.1	17.5
40°-50°	1305.4	25.5
50°-60°	1479.2	28.9
60°-70°	422.9	8.3
70°-80°	32.8	0.6
80°-90°	6.8	0.1
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°	5116.0	100.0
0°-180°	5116.0	100.0

**Coefficient of Utilization**



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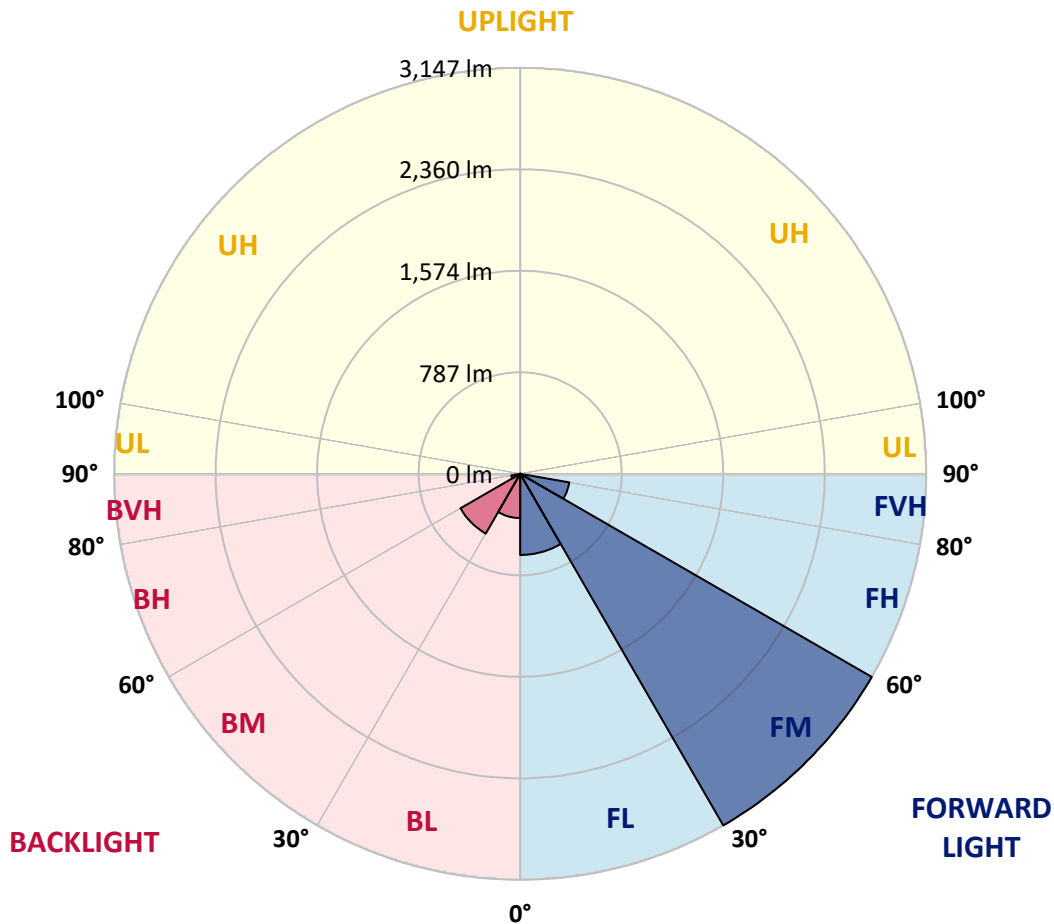
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	628.9	12.3			
FM (30°-60°)	3147.1	61.5			
FH (60°-80°)	386.4	7.6			G0/660
FVH (80°-90°)	3.3	0.1			G0/10
BL (0°-30°)	342.8	6.7	B1/500		
BM (30°-60°)	534.5	10.4	B1/1000		
BH (60°-80°)	69.4	1.4	B0/110		G0/110
BVH (80°-90°)	3.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3
2.5°	1236.7	1248.6	1250.4	1265.0	1264.1	1288.8	1296.1	1297.0	1313.5	1305.3	1326.3
5°	1201.9	1195.5	1192.8	1218.4	1225.7	1247.6	1265.9	1276.9	1310.8	1322.6	1344.6
7.5°	1170.8	1170.8	1172.6	1195.5	1192.8	1221.1	1240.3	1274.2	1323.6	1333.6	1360.1
10°	1140.6	1129.6	1143.4	1167.1	1187.3	1200.1	1240.3	1272.3	1330.0	1359.2	1395.8
12.5°	1125.1	1130.6	1132.4	1149.8	1171.7	1210.1	1232.1	1285.1	1375.7	1393.1	1432.4
15°	1222.9	1212.0	1185.4	1169.9	1188.2	1206.5	1261.4	1315.3	1399.5	1424.2	1468.1
17.5°	1336.4	1327.2	1305.3	1263.2	1222.0	1255.9	1298.9	1348.3	1425.1	1461.7	1526.6
20°	1484.5	1469.9	1448.0	1365.6	1330.0	1293.4	1339.1	1397.6	1467.2	1500.1	1566.9
22.5°	1661.1	1661.1	1611.7	1512.0	1437.9	1403.1	1422.3	1456.2	1513.8	1558.6	1624.5
25°	1844.9	1839.4	1794.6	1691.3	1566.0	1524.8	1546.7	1570.5	1586.1	1610.8	1654.7
27.5°	2055.3	2023.3	1966.6	1852.3	1741.6	1662.0	1685.8	1664.7	1645.5	1658.3	1721.4
30°	2198.0	2218.1	2145.9	2036.1	1931.8	1843.1	1847.7	1829.4	1741.6	1759.9	1797.4
32.5°	2346.2	2359.0	2318.7	2258.4	2154.1	2050.7	2013.2	1997.7	1931.8	1940.1	1903.5
35°	2469.7	2494.4	2458.7	2432.2	2402.0	2318.7	2215.4	2265.7	2159.6	2139.5	2044.3
37.5°	2583.1	2575.8	2617.8	2590.4	2584.0	2525.5	2412.0	2422.1	2350.8	2346.2	2236.4
40°	2684.6	2686.4	2744.1	2756.9	2731.3	2627.0	2462.3	2541.9	2599.6	2605.0	2464.2
42.5°	2768.8	2793.5	2842.9	2946.2	2907.8	2734.0	2514.5	2601.4	2815.4	2849.3	2680.0
45°	2841.9	2892.3	2953.5	3045.9	3024.0	2885.9	2644.4	2724.0	3045.9	3134.6	2883.1
47.5°	2846.5	2912.4	2979.2	3116.4	3143.8	2967.3	2778.8	2917.9	3228.9	3324.9	3031.3
50°	2828.2	2863.0	2996.5	3145.6	3207.8	3099.9	2967.3	3080.7	3406.3	3466.7	3106.3
52.5°	2611.4	2638.0	2906.0	3173.1	3323.1	3249.9	3217.0	3307.5	3587.4	3632.2	3176.7
55°	2177.0	2172.4	2541.0	3034.9	3376.1	3472.2	3452.0	3484.1	3796.9	3837.1	3194.1
57.5°	1489.1	1572.4	1890.7	2527.3	3051.4	3420.0	3441.1	3388.0	3552.7	3568.2	2784.3
60°	803.1	837.9	1094.0	1686.7	2323.3	2787.1	2841.9	2745.9	2733.1	2689.2	1987.6
62.5°	319.2	336.6	482.0	835.1	1265.9	1694.0	1812.0	1772.7	1688.5	1573.3	1029.0
65°	151.8	162.8	239.6	390.6	561.6	706.1	824.1	860.7	634.8	571.7	339.4
67.5°	103.4	111.6	174.7	223.2	200.3	209.5	272.6	253.4	149.1	127.1	94.2
70°	78.7	84.2	139.9	151.8	89.6	63.1	70.4	65.9	61.3	62.2	61.3
72.5°	55.8	60.4	102.4	89.6	39.3	29.3	37.5	44.8	44.8	44.8	43.9
75°	33.8	38.4	59.5	34.8	15.5	15.5	23.8	30.2	32.0	32.9	31.1
77.5°	17.4	22.0	20.1	10.1	10.1	11.9	17.4	21.0	22.9	22.9	22.0
80°	3.7	3.7	3.7	5.5	10.1	12.8	17.4	19.2	22.0	22.0	20.1
82.5°	0.0	0.9	2.7	5.5	9.1	11.9	16.5	19.2	22.0	22.9	21.0
85°	0.0	0.9	1.8	3.7	6.4	7.3	6.4	5.5	5.5	5.5	5.5
87.5°	0.0	0.0	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8	1.8
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°	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3	1315.3
2.5°	1328.1	1330.9	1326.3	1325.4	1321.7	1332.7	1306.2	1299.8	1316.2	1300.7	1304.4
5°	1345.5	1351.9	1343.7	1330.0	1309.8	1278.7	1252.2	1217.5	1201.0	1189.1	1187.3
7.5°	1358.3	1362.9	1354.7	1310.8	1250.4	1171.7	1113.2	1070.2	1036.3	1026.3	1009.8
10°	1410.5	1411.4	1370.2	1273.3	1155.3	1051.9	962.3	896.4	862.6	841.5	832.4
12.5°	1445.2	1443.4	1360.1	1199.2	1041.8	904.6	802.2	722.6	691.5	681.4	675.0
15°	1489.1	1479.1	1336.4	1123.2	895.5	747.3	654.9	600.0	597.3	590.9	597.3
17.5°	1523.9	1495.5	1301.6	985.1	755.5	615.6	555.2	558.9	566.2	572.6	573.5
20°	1580.6	1522.0	1222.0	864.4	625.6	527.8	526.9	543.3	561.6	568.9	576.3
22.5°	1623.6	1533.0	1137.0	735.4	519.5	492.1	507.7	532.4	546.1	553.4	564.4
25°	1639.1	1502.8	1023.5	606.4	468.3	475.6	499.4	515.9	533.3	541.5	536.9
27.5°	1654.7	1487.3	888.2	499.4	440.9	464.7	484.8	501.3	506.7	517.7	525.0
30°	1692.2	1433.3	766.5	431.7	427.2	457.3	472.0	477.5	492.1	498.5	498.5
32.5°	1722.4	1412.3	637.5	399.7	425.3	461.0	462.8	462.8	464.7	460.1	458.3
35°	1784.6	1340.0	522.3	380.5	424.4	461.9	466.5	450.9	408.9	392.4	387.8
37.5°	1861.4	1293.4	437.2	375.9	430.8	472.9	480.2	421.7	366.8	340.3	335.7
40°	1954.7	1260.4	381.4	374.1	445.5	498.5	476.6	398.8	327.5	289.0	287.2
42.5°	2063.5	1230.3	343.9	373.2	463.7	525.0	472.9	379.6	287.2	261.6	265.3
45°	2150.4	1213.8	318.3	366.8	470.2	540.6	475.6	345.8	270.7	254.3	256.1
47.5°	2218.1	1179.0	297.3	355.8	469.2	546.1	450.9	332.0	262.5	267.1	271.7
50°	2220.0	1132.4	270.7	332.0	455.5	536.0	422.6	319.2	260.7	279.9	289.0
52.5°	2195.3	1066.5	242.4	298.2	423.5	501.3	397.0	313.7	252.5	250.6	261.6
55°	2107.4	943.0	194.8	241.5	357.6	413.4	374.1	303.7	227.8	206.7	208.5
57.5°	1703.2	676.0	143.6	172.9	253.4	302.8	337.5	299.1	204.9	175.6	176.5
60°	1054.6	383.3	105.2	118.0	156.4	183.9	273.5	278.1	182.9	148.2	146.4
62.5°	541.5	189.3	81.4	83.2	96.0	107.9	187.5	233.2	165.6	140.9	140.9
65°	181.1	93.3	71.3	64.0	64.0	66.8	113.4	161.9	139.9	118.0	118.0
67.5°	77.7	69.5	62.2	55.8	51.2	48.5	64.0	94.2	104.3	89.6	86.0
70°	60.4	58.5	54.0	46.6	40.2	36.6	37.5	48.5	59.5	57.6	55.8
72.5°	44.8	44.8	43.0	36.6	31.1	26.5	24.7	25.6	28.4	29.3	30.2
75°	31.1	32.0	32.0	28.4	22.9	19.2	16.5	13.7	11.0	9.1	8.2
77.5°	21.0	22.0	23.8	21.0	17.4	12.8	10.1	7.3	4.6	1.8	1.8
80°	18.3	21.0	22.9	21.0	18.3	13.7	10.1	5.5	2.7	0.0	0.0
82.5°	19.2	21.0	23.8	20.1	17.4	12.8	10.1	6.4	2.7	0.9	0.0
85°	4.6	4.6	5.5	6.4	8.2	9.1	7.3	4.6	2.7	0.9	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	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)