

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: P527047

Luminaire Tested: **GALN-SA2A-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-735-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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: 81.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

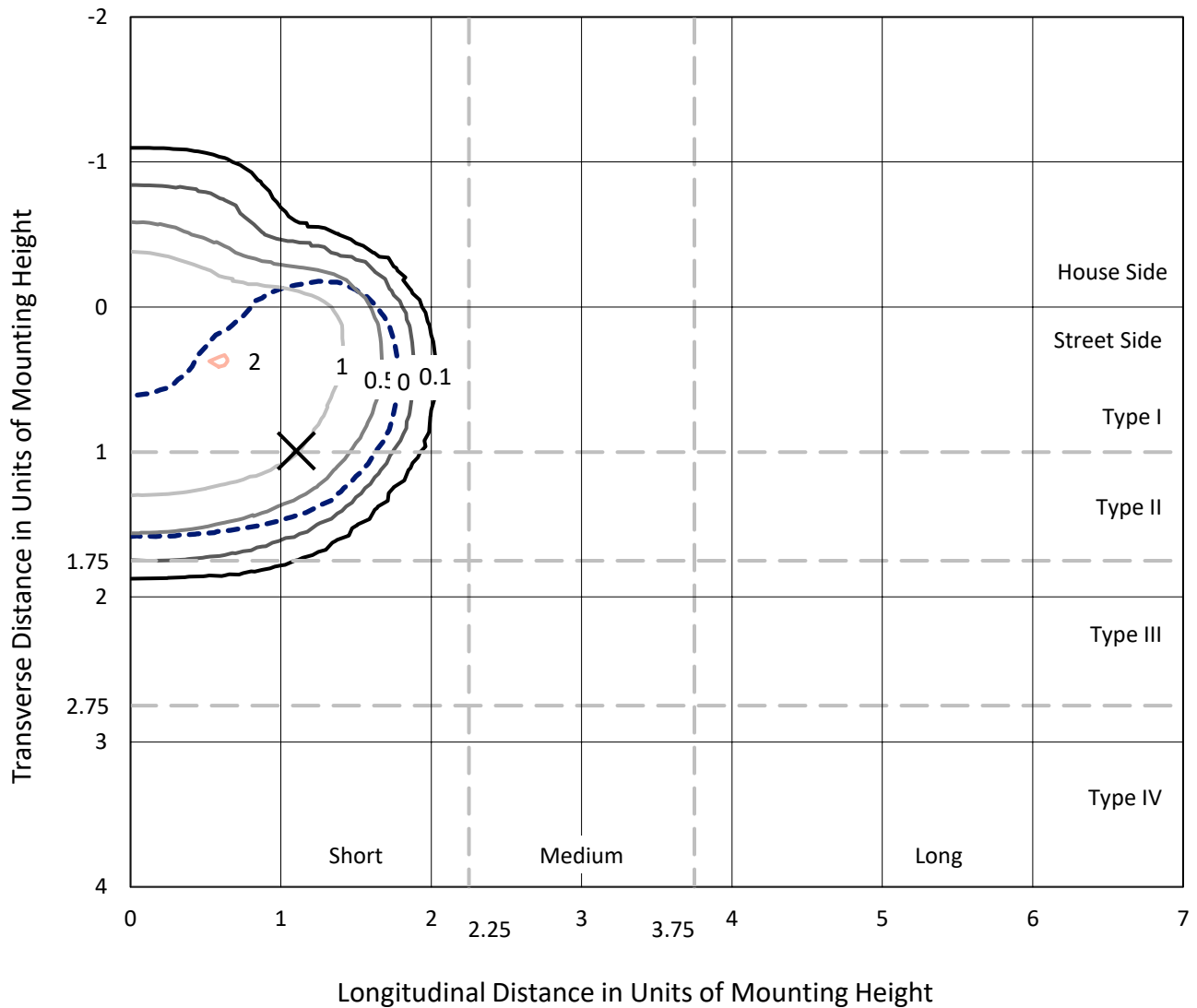
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

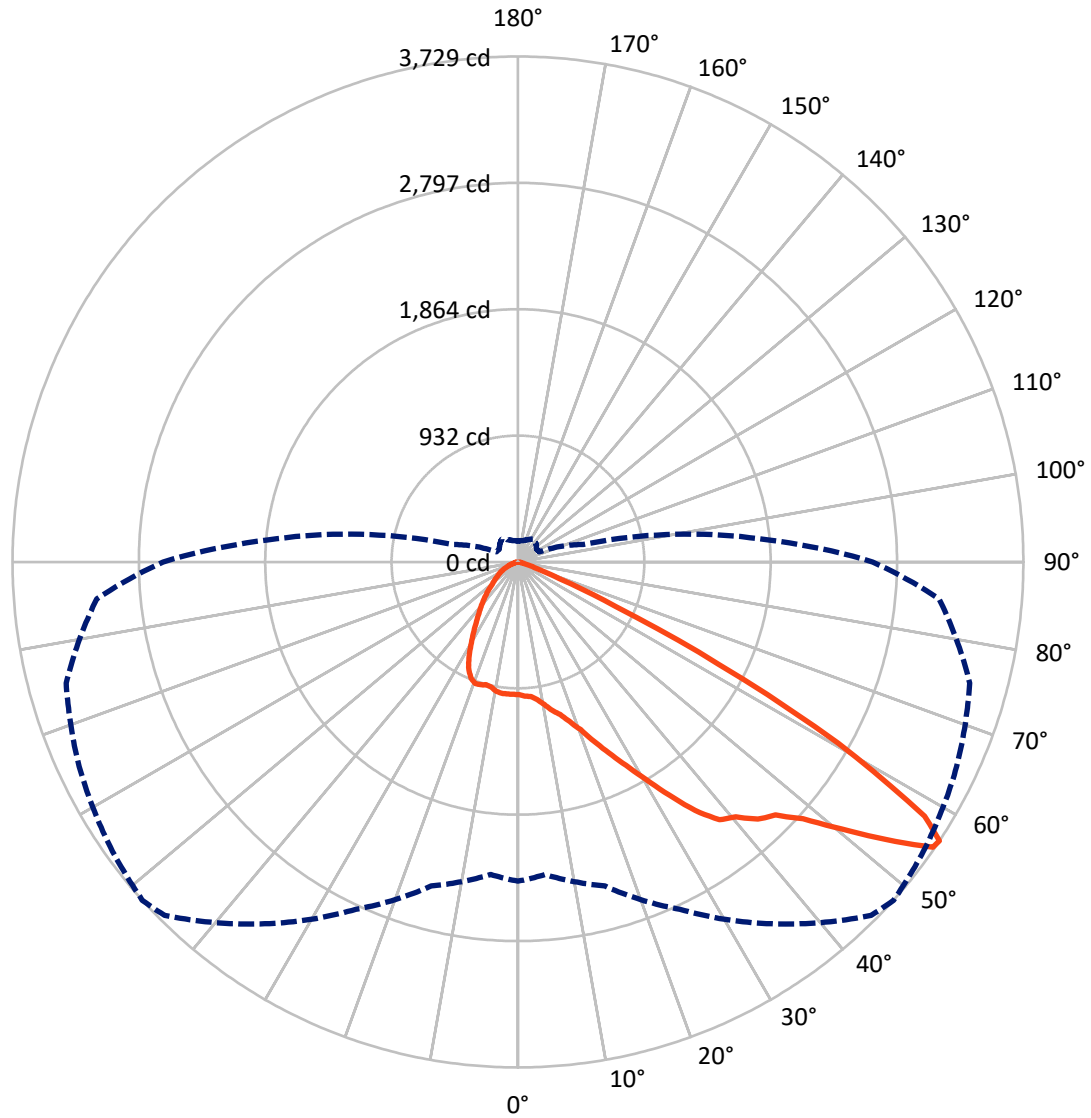
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1112.6	0.0	1112.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	4003.4	0.0	4003.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	5116.0	0.0	5116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	1.9
10°-20°	304.2	5.9
20°-30°	551.8	10.8
30°-40°	866.7	16.9
40°-50°	1264.3	24.7
50°-60°	1523.3	29.8
60°-70°	446.0	8.7
70°-80°	56.6	1.1
80°-90°	7.9	0.2
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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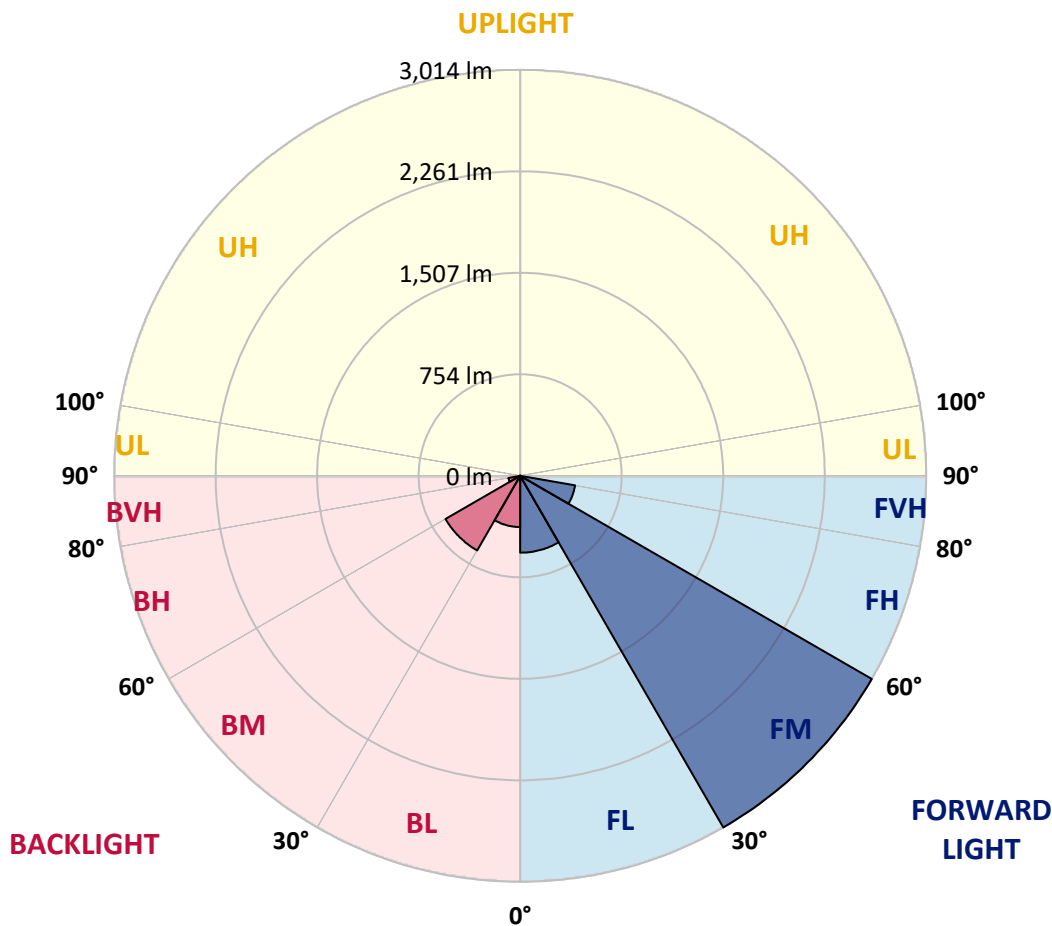
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	570.8	11.2			
FM (30°-60°)	3014.4	58.9			
FH (60°-80°)	414.2	8.1			G0/660
FVH (80°-90°)	4.0	0.1			G0/10
BL (0°-30°)	380.3	7.4	B1/500		
BM (30°-60°)	640.0	12.5	B1/1000		
BH (60°-80°)	88.4	1.7	B0/110		G0/110
BVH (80°-90°)	3.9	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°	48°	55°	65°	75°	85°
0°	977.2	977.2	977.2	977.2	977.2	977.2	977.2	977.2	977.2	977.2	977.2
2.5°	994.9	990.2	990.2	982.7	991.1	987.4	990.2	980.9	990.2	976.2	987.4
5°	999.5	1000.4	996.7	1001.4	1001.4	1007.0	997.7	1006.0	1010.7	1000.4	995.8
7.5°	1023.7	1025.6	1024.7	1020.9	1028.4	1027.5	1026.5	1020.0	1021.9	1018.1	1012.6
10°	1071.2	1070.3	1075.0	1065.7	1060.1	1066.6	1068.4	1058.2	1050.7	1048.0	1030.3
12.5°	1140.2	1129.0	1122.5	1113.2	1116.0	1106.6	1123.4	1105.7	1102.0	1085.2	1067.5
15°	1196.1	1194.2	1195.1	1180.2	1163.5	1167.2	1167.2	1157.9	1152.3	1131.8	1106.6
17.5°	1310.6	1271.5	1279.9	1261.3	1247.3	1246.4	1238.0	1239.8	1224.9	1182.1	1143.9
20°	1400.1	1383.3	1370.3	1338.6	1317.2	1323.7	1320.0	1310.6	1306.0	1250.1	1196.1
22.5°	1480.2	1485.8	1464.3	1456.0	1426.1	1428.9	1436.4	1428.0	1392.6	1334.9	1254.7
25°	1592.9	1586.4	1557.5	1547.2	1519.3	1529.5	1558.4	1551.9	1529.5	1425.2	1300.4
27.5°	1726.1	1703.7	1709.3	1662.8	1635.7	1664.6	1699.1	1731.7	1668.3	1531.4	1354.4
30°	1820.2	1796.9	1795.0	1793.2	1786.6	1820.2	1860.2	1890.0	1838.8	1637.6	1443.8
32.5°	1866.8	1872.3	1888.2	1882.6	1939.4	2008.3	2050.3	2093.1	2028.8	1810.9	1562.1
35°	1990.6	1955.2	1990.6	1994.4	2053.1	2199.3	2252.4	2354.9	2339.0	2055.9	1706.5
37.5°	2063.3	2060.5	2065.2	2100.6	2157.4	2338.1	2413.6	2492.7	2462.9	2203.0	1886.3
40°	2183.5	2190.9	2190.0	2217.0	2279.4	2442.4	2473.2	2537.4	2540.2	2407.0	2150.9
42.5°	2376.3	2346.5	2326.9	2354.9	2442.4	2532.8	2594.3	2581.2	2673.4	2654.8	2490.9
45°	2549.6	2567.3	2538.4	2585.0	2616.6	2665.1	2663.2	2691.1	2808.5	2897.0	2747.0
47.5°	2711.6	2722.8	2736.8	2768.5	2837.4	2844.8	2829.0	2816.9	2979.0	3070.3	2945.4
50°	2808.5	2818.8	2884.0	2940.8	3069.3	3086.1	3095.4	3064.7	3174.6	3184.8	3132.7
52.5°	2782.4	2793.6	2884.9	3072.1	3277.1	3430.8	3402.8	3350.7	3344.1	3384.2	3305.9
55°	2551.4	2541.2	2666.9	2958.5	3342.3	3711.2	3714.9	3659.9	3554.7	3527.6	3279.9
56°	2354.9	2314.8	2475.0	2827.1	3258.4	3686.9	3728.9	3670.2	3571.4	3450.3	3118.7
57.5°	1929.2	1967.4	2126.6	2418.2	2968.7	3512.7	3537.0	3523.0	3448.5	3245.4	2744.2
60°	1063.8	1130.9	1271.5	1628.3	2113.6	2695.8	2715.4	2829.0	2843.0	2485.3	1888.2
62.5°	451.8	444.3	590.6	853.3	1203.5	1627.4	1663.7	1780.1	1801.5	1432.7	947.3
65°	183.5	193.8	267.3	429.4	636.2	741.5	792.7	830.9	901.7	591.5	349.3
67.5°	121.1	120.2	157.4	245.0	342.8	330.7	330.7	349.3	323.2	241.3	150.9
70°	86.6	89.4	112.7	169.5	213.3	158.4	151.8	145.3	164.9	159.3	122.0
72.5°	56.8	60.5	75.5	101.5	110.9	86.6	86.6	104.3	136.0	128.5	99.7
75°	37.3	38.2	46.6	58.7	55.0	44.7	49.4	69.9	98.7	95.0	70.8
77.5°	25.2	26.1	31.7	38.2	30.7	25.2	27.0	35.4	48.4	48.4	37.3
80°	9.3	10.2	13.0	12.1	14.0	17.7	19.6	24.2	28.9	28.9	25.2
82.5°	0.0	0.9	2.8	6.5	10.2	14.0	15.8	18.6	21.4	24.2	23.3
85°	0.0	0.9	2.8	4.7	7.5	8.4	9.3	6.5	5.6	5.6	4.7
87.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.9	0.9	0.9
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°	977.2	977.2	977.2	977.2	977.2	977.2	977.2	977.2	977.2	977.2	977.2
2.5°	977.2	976.2	976.2	973.4	979.0	976.2	978.1	977.2	965.0	974.4	967.8
5°	987.4	993.9	983.7	981.8	974.4	977.2	977.2	967.8	976.2	975.3	973.4
7.5°	1013.5	1002.3	991.1	980.0	978.1	975.3	965.0	961.3	967.8	960.4	971.6
10°	1024.7	1026.5	1009.8	994.9	980.9	961.3	947.3	939.0	928.7	939.9	946.4
12.5°	1075.9	1057.3	1028.4	1005.1	957.6	938.0	924.1	920.3	938.0	941.8	935.2
15°	1093.6	1090.8	1053.5	1001.4	952.0	928.7	931.5	924.1	925.9	916.6	918.5
17.5°	1129.9	1098.3	1054.5	989.3	951.1	945.5	928.7	898.9	882.1	874.7	881.2
20°	1170.0	1139.2	1075.9	993.9	959.5	944.6	889.6	853.3	818.8	800.2	801.1
22.5°	1205.4	1167.2	1066.6	995.8	966.9	905.4	839.3	767.6	724.7	695.8	696.8
25°	1248.2	1194.2	1070.3	999.5	947.3	843.0	748.0	678.1	626.9	607.3	613.9
27.5°	1272.4	1211.0	1090.8	1007.9	896.1	754.5	652.1	586.9	557.0	547.7	546.8
30°	1345.1	1248.2	1116.0	991.1	810.4	659.5	564.5	524.4	495.6	487.2	489.0
32.5°	1453.2	1316.2	1148.6	947.3	722.9	574.7	507.7	477.9	450.9	435.0	433.2
35°	1543.5	1432.7	1183.0	879.3	621.3	509.5	467.6	430.4	389.4	371.7	367.0
37.5°	1715.8	1564.0	1175.6	776.9	524.4	461.1	424.8	379.1	343.7	319.5	316.7
40°	1945.0	1717.7	1139.2	652.1	452.7	418.2	379.1	335.3	291.6	271.1	269.2
42.5°	2223.5	1905.9	1073.1	525.4	381.0	375.4	340.0	289.7	250.6	235.7	236.6
45°	2449.9	2067.0	1006.0	422.0	327.9	333.5	302.7	255.2	228.2	216.1	216.1
47.5°	2651.1	2176.0	933.4	348.4	278.5	291.6	264.5	236.6	213.3	204.0	202.1
50°	2844.8	2286.9	860.7	282.2	237.5	250.6	247.8	225.4	206.8	195.6	196.5
52.5°	2965.9	2304.6	768.5	231.0	207.7	222.6	231.9	211.5	191.0	184.4	182.6
55°	2817.8	2076.3	596.2	190.0	176.1	195.6	213.3	190.0	174.2	163.0	162.1
56°	2618.5	1856.5	498.4	175.1	166.7	188.2	206.8	181.6	163.9	157.4	152.8
57.5°	2217.0	1519.3	367.9	155.6	154.6	175.1	196.5	173.3	152.8	147.2	147.2
60°	1382.4	855.1	222.6	130.4	134.1	155.6	177.0	154.6	136.0	136.0	138.8
62.5°	629.7	355.8	135.1	110.9	115.5	134.1	157.4	139.7	129.5	139.7	141.6
65°	214.2	153.7	97.8	88.5	91.3	110.9	135.1	141.6	140.7	147.2	150.9
67.5°	120.2	98.7	82.0	73.6	71.7	82.0	110.9	141.6	136.0	133.2	135.1
70°	101.5	83.8	72.7	65.2	62.4	66.1	85.7	107.1	95.9	93.2	91.3
72.5°	82.0	69.9	63.3	58.7	50.3	42.8	39.1	41.0	45.6	48.4	53.1
75°	57.8	53.1	53.1	47.5	36.3	27.0	21.4	17.7	12.1	8.4	9.3
77.5°	32.6	32.6	33.5	28.9	23.3	17.7	13.0	9.3	4.7	1.9	0.9
80°	22.4	24.2	26.1	23.3	19.6	15.8	11.2	6.5	2.8	0.0	0.0
82.5°	22.4	25.2	27.0	23.3	19.6	14.9	11.2	6.5	2.8	0.9	0.0
85°	4.7	5.6	6.5	7.5	11.2	11.2	8.4	5.6	2.8	0.9	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	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)