

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: P526812

Luminaire Tested: **GALN-SA1D-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526812  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-735-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6407 lumens  
Efficiency: N/A  
Efficacy: 98.6 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

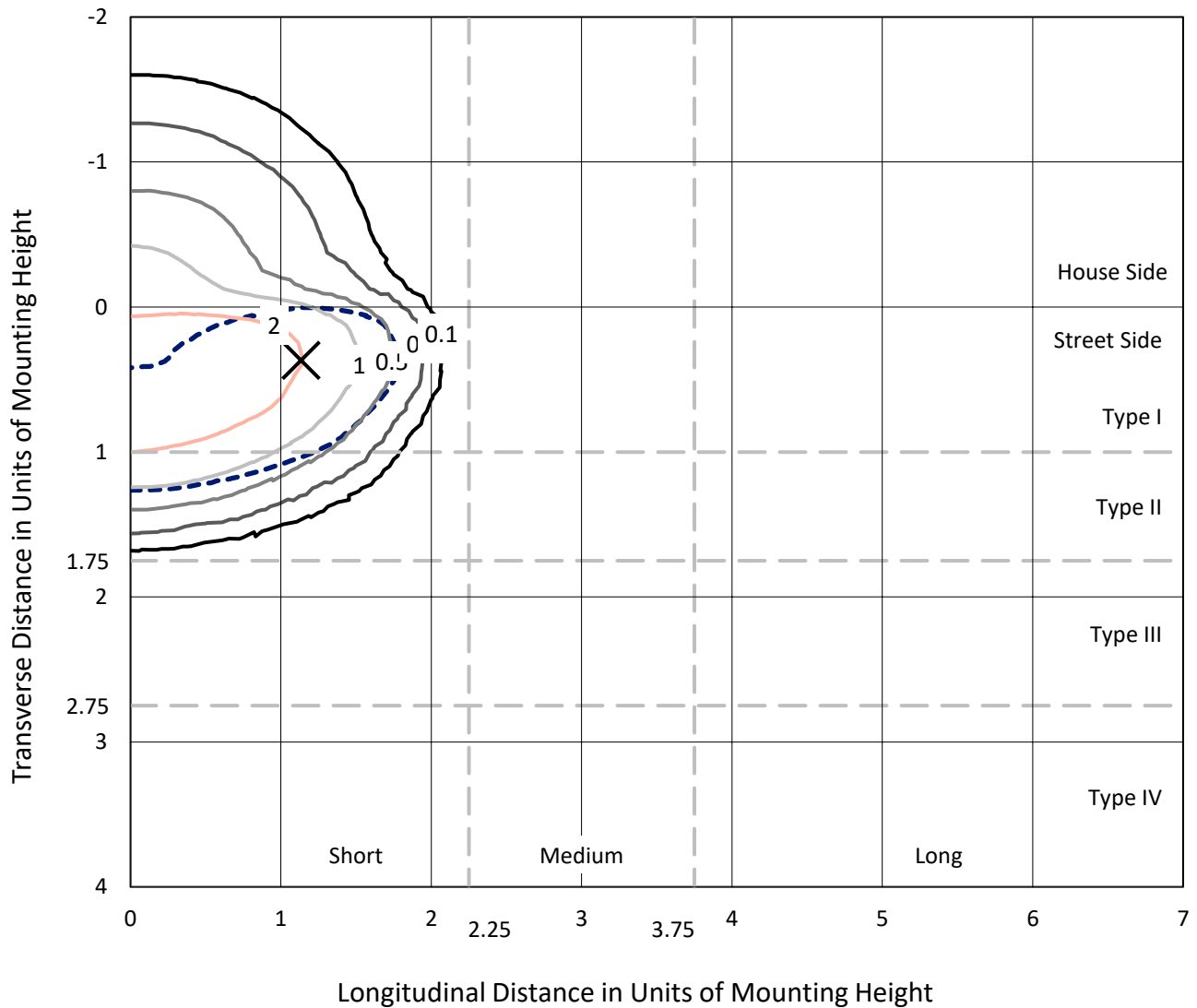
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

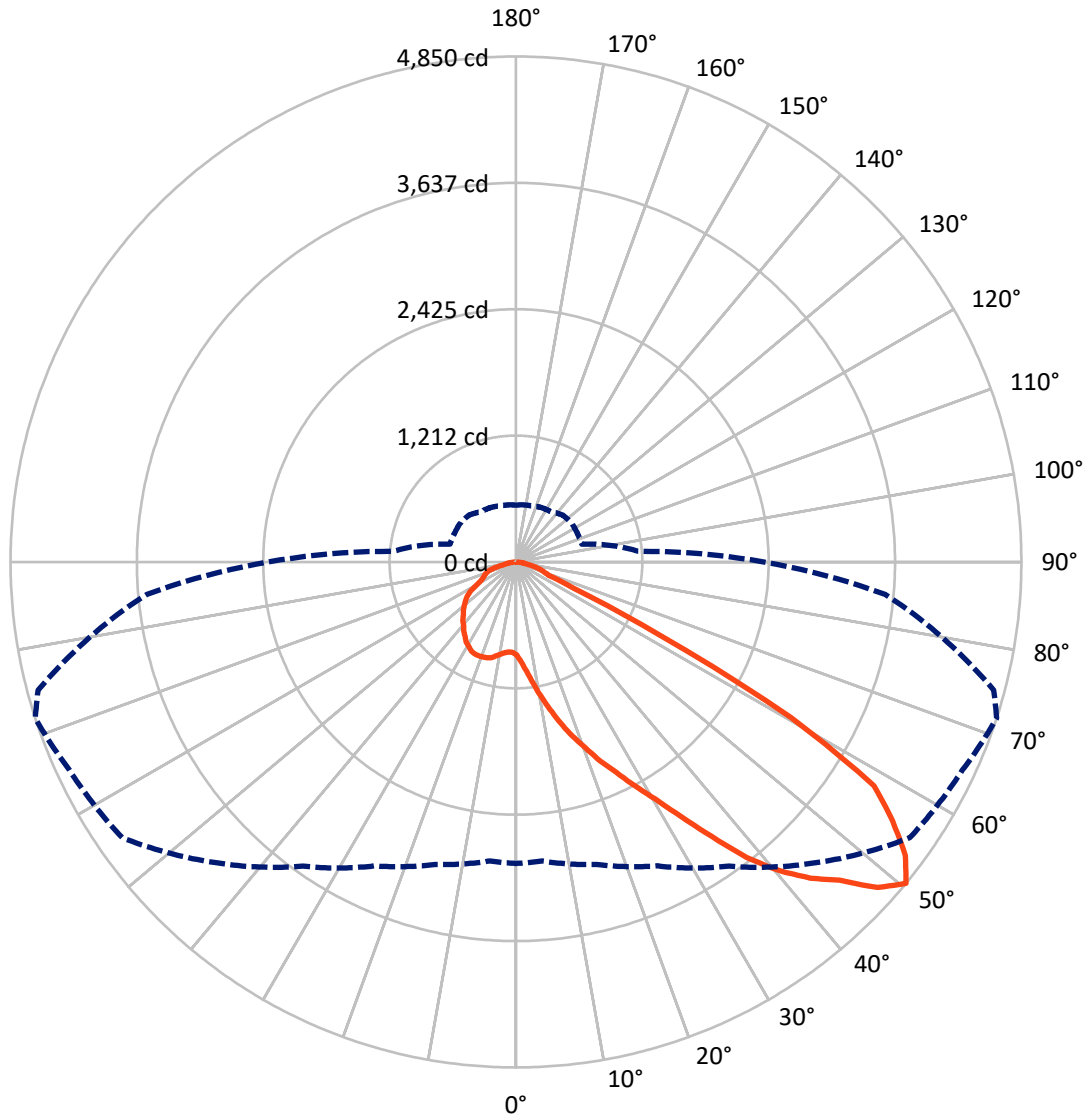
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1467.9	0.0	1467.9
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	4939.1	0.0	4939.1
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	6407.0	0.0	6407.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.9	1.6
10°-20°	392.2	6.1
20°-30°	760.4	11.9
30°-40°	1259.8	19.7
40°-50°	1762.7	27.5
50°-60°	1487.1	23.2
60°-70°	453.3	7.1
70°-80°	159.0	2.5
80°-90°	27.7	0.4
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°	6407.0	100.0
0°-180°	6407.0	100.0

**Coefficient of Utilization**

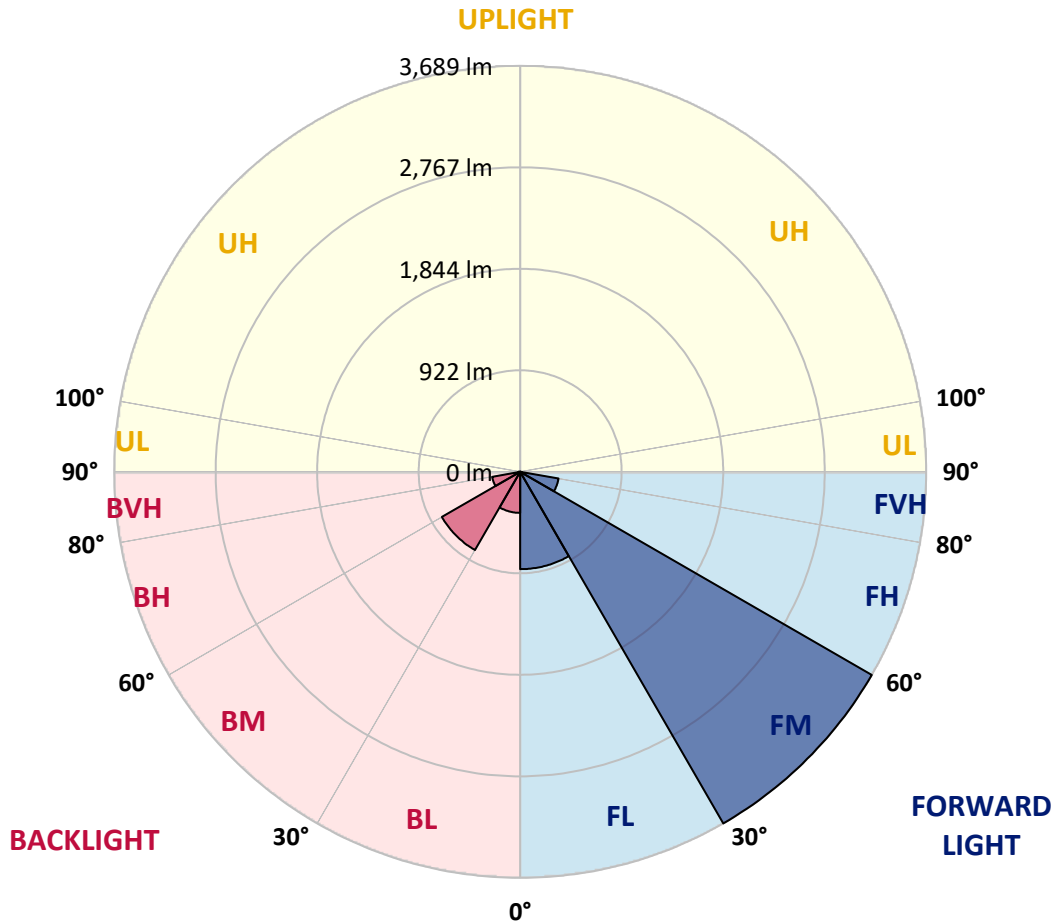


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	884.4	13.8			
FM (30°-60°)	3688.7	57.6			
FH (60°-80°)	353.7	5.5			G0/660
FVH (80°-90°)	12.4	0.2			G1/100
BL (0°-30°)	373.1	5.8	B1/500		
BM (30°-60°)	820.9	12.8	B1/1000		
BH (60°-80°)	258.6	4.0	B1/500		G1/500
BVH (80°-90°)	15.3	0.2			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°	72°	75°	85°
0°	891.9	891.9	891.9	891.9	891.9	891.9	891.9	891.9	891.9	891.9	891.9
2.5°	1147.2	1140.1	1118.7	1111.5	1086.1	1040.2	1024.3	977.5	957.7	939.5	918.1
5°	1450.8	1417.5	1415.2	1374.7	1316.1	1282.0	1180.5	1112.3	1049.7	1018.0	959.3
7.5°	1644.3	1645.1	1645.1	1611.8	1565.0	1478.6	1387.4	1264.5	1170.2	1123.4	1023.5
10°	1828.2	1812.4	1803.6	1800.5	1768.8	1684.7	1587.2	1435.0	1305.8	1251.1	1071.9
12.5°	1958.2	1944.8	1964.6	1954.3	1931.3	1876.6	1784.6	1611.0	1449.3	1375.5	1149.6
15°	2020.1	2029.6	2045.4	2074.0	2063.7	2043.1	1941.6	1791.7	1603.9	1520.6	1218.5
17.5°	2115.2	2089.0	2108.1	2143.8	2172.3	2162.8	2104.9	1922.6	1756.9	1654.6	1311.3
20°	2181.8	2166.7	2176.3	2217.5	2238.9	2292.8	2262.7	2093.8	1903.5	1795.7	1420.7
22.5°	2372.1	2349.9	2319.0	2325.3	2333.2	2371.3	2378.4	2281.7	2074.0	1959.8	1524.6
25°	2606.8	2586.1	2549.7	2512.4	2489.4	2482.3	2506.9	2429.2	2237.3	2119.2	1636.4
27.5°	2865.2	2830.3	2807.3	2730.4	2668.6	2659.1	2647.2	2605.2	2430.7	2303.1	1762.4
30°	3116.5	3088.8	3057.9	2935.0	2870.8	2860.5	2801.8	2813.7	2640.8	2498.9	1905.1
32.5°	3306.8	3309.2	3238.6	3145.9	3085.6	3030.9	3009.5	3043.6	2910.4	2796.2	2064.5
35°	3460.6	3467.7	3400.4	3316.3	3251.3	3289.4	3279.8	3295.7	3232.3	3092.7	2250.0
37.5°	3610.4	3574.8	3502.6	3462.2	3428.1	3490.7	3571.6	3585.1	3597.0	3432.9	2465.6
40°	3635.0	3638.2	3596.2	3624.7	3581.9	3676.3	3864.1	3846.7	3895.1	3751.6	2699.5
42.5°	3600.1	3607.3	3623.9	3664.4	3767.4	3880.8	4159.9	4088.5	4147.2	4019.5	2927.0
45°	3543.1	3513.7	3534.3	3688.1	3866.5	4118.6	4430.2	4374.7	4355.7	4248.7	3198.2
47.5°	3270.3	3300.5	3364.7	3554.2	3822.1	4159.9	4622.1	4609.4	4666.5	4591.2	3444.8
50°	2892.2	2880.3	3003.9	3217.2	3562.9	4079.0	4611.8	4726.7	4849.6	4745.0	3555.0
52.5°	2166.0	2229.4	2335.6	2600.4	3093.5	3638.2	4386.6	4578.5	4678.4	4656.2	3466.2
55°	1369.2	1388.2	1452.4	1767.2	2211.1	2919.9	3760.3	4205.1	4383.4	4466.7	3384.5
57.5°	665.2	629.5	708.0	960.9	1277.2	1963.8	2900.1	3662.8	4050.5	4201.1	3206.9
60°	347.2	360.7	391.6	482.0	660.4	1019.6	1807.6	2441.1	3033.3	3264.8	2430.7
62.5°	287.8	292.5	313.2	358.3	439.2	586.7	922.8	1190.0	1546.8	1755.3	1382.7
65°	244.2	246.6	268.8	298.9	350.4	413.1	474.9	497.1	601.7	617.6	491.5
67.5°	203.8	206.1	229.9	258.5	291.8	308.4	324.3	322.7	334.6	329.8	329.0
70°	157.0	159.4	183.9	214.1	230.7	221.2	270.3	281.4	286.2	290.2	296.5
72.5°	113.4	118.1	137.2	158.6	149.8	172.0	222.8	239.4	245.8	248.1	256.1
75°	82.5	84.0	88.8	82.5	95.1	119.7	157.0	177.6	185.5	187.9	199.8
77.5°	36.5	37.3	38.1	47.6	61.0	74.5	93.6	110.2	121.3	124.5	127.6
80°	19.0	19.8	24.6	32.5	43.6	54.7	68.2	77.7	84.8	85.6	88.8
82.5°	11.9	12.7	17.4	23.0	30.9	40.4	49.9	57.9	63.4	64.2	65.0
85°	5.5	7.1	10.3	14.3	20.6	26.2	27.0	23.0	24.6	25.4	23.8
87.5°	1.6	2.4	3.2	2.4	3.2	3.2	4.0	4.8	4.8	4.8	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°	891.9	891.9	891.9	891.9	891.9	891.9	891.9	891.9	891.9	891.9	891.9
2.5°	906.2	899.0	871.3	861.0	834.0	838.8	824.5	823.7	820.6	819.8	819.0
5°	928.4	906.2	872.9	847.5	832.4	830.9	820.6	820.6	823.7	826.1	820.6
7.5°	964.8	939.5	883.2	859.4	845.9	843.5	836.4	830.9	838.0	835.6	829.3
10°	1006.9	962.5	903.0	882.4	860.2	854.6	854.6	857.0	845.1	849.1	842.8
12.5°	1053.6	994.2	928.4	904.6	878.4	875.3	873.7	856.2	862.6	859.4	843.5
15°	1113.1	1030.7	960.9	920.5	898.3	884.0	863.4	860.2	856.2	848.3	841.2
17.5°	1177.3	1070.3	975.9	925.2	891.9	881.6	865.7	849.1	837.2	838.8	833.2
20°	1232.0	1106.8	981.5	930.0	887.2	867.3	842.8	832.4	819.8	819.0	818.2
22.5°	1297.0	1155.9	989.4	917.3	872.9	852.3	835.6	817.4	808.7	797.6	803.1
25°	1374.7	1174.9	991.0	910.1	862.6	826.1	817.4	797.6	794.4	778.5	781.7
27.5°	1431.0	1185.2	978.3	887.9	838.8	811.0	795.2	780.9	775.4	763.5	760.3
30°	1506.3	1201.1	951.4	860.2	815.0	784.1	774.6	771.4	755.5	742.9	741.3
32.5°	1592.0	1211.4	933.9	831.7	790.4	766.6	771.4	756.3	736.5	725.4	722.2
35°	1660.1	1215.4	890.3	799.2	773.8	758.7	753.2	750.0	721.5	711.1	703.2
37.5°	1764.0	1206.7	853.9	776.2	755.5	750.0	745.2	723.8	691.3	676.3	665.2
40°	1885.3	1204.3	807.1	743.7	738.1	744.4	730.2	696.9	651.7	635.0	627.1
42.5°	2001.8	1220.9	777.7	726.2	719.1	721.5	701.6	651.7	629.5	620.0	607.3
45°	2196.9	1255.8	729.4	699.3	696.1	694.5	670.7	618.4	605.7	593.8	591.4
47.5°	2372.9	1232.8	698.5	671.5	674.7	666.0	615.2	598.6	584.3	572.4	568.4
50°	2383.2	1178.1	654.9	650.1	650.9	635.8	587.5	576.4	558.1	550.2	544.7
52.5°	2329.3	1088.5	614.4	616.0	618.4	593.8	553.4	545.5	530.4	519.3	516.1
55°	2177.8	949.0	574.8	581.1	587.5	540.7	528.0	508.2	496.3	480.4	481.2
57.5°	1918.6	764.3	519.3	529.6	543.1	491.5	482.0	457.5	440.0	427.3	425.7
60°	1285.9	543.9	436.0	440.0	470.1	449.5	448.7	424.2	400.4	389.3	382.9
62.5°	758.7	415.4	376.6	372.6	371.8	383.7	403.5	394.8	363.9	342.5	348.8
65°	397.2	359.1	350.4	336.9	329.0	325.8	340.9	344.9	324.3	301.3	299.7
67.5°	333.8	333.8	326.6	321.9	310.8	297.3	287.8	275.1	271.9	265.6	257.7
70°	303.6	311.6	309.2	298.1	288.6	273.5	248.9	228.3	208.5	201.4	206.1
72.5°	264.8	272.7	272.7	267.2	254.5	231.5	207.7	183.9	167.3	154.6	153.0
75°	203.8	207.7	217.2	210.9	194.2	180.0	155.4	130.8	115.0	103.1	100.7
77.5°	130.0	136.4	136.4	135.6	123.7	110.2	94.3	76.9	65.0	56.3	53.9
80°	86.4	90.4	93.6	90.4	82.5	72.1	60.3	48.4	39.6	32.5	30.9
82.5°	63.4	68.2	70.6	67.4	59.5	51.5	42.8	34.1	25.4	19.8	18.2
85°	24.6	25.4	28.5	34.1	33.3	32.5	26.2	19.0	14.3	10.3	9.5
87.5°	6.3	5.5	6.3	6.3	5.5	4.8	4.8	4.8	4.8	2.4	3.2
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)