

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: P648240

Luminaire Tested: **GALN-SA1B-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4498.3 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

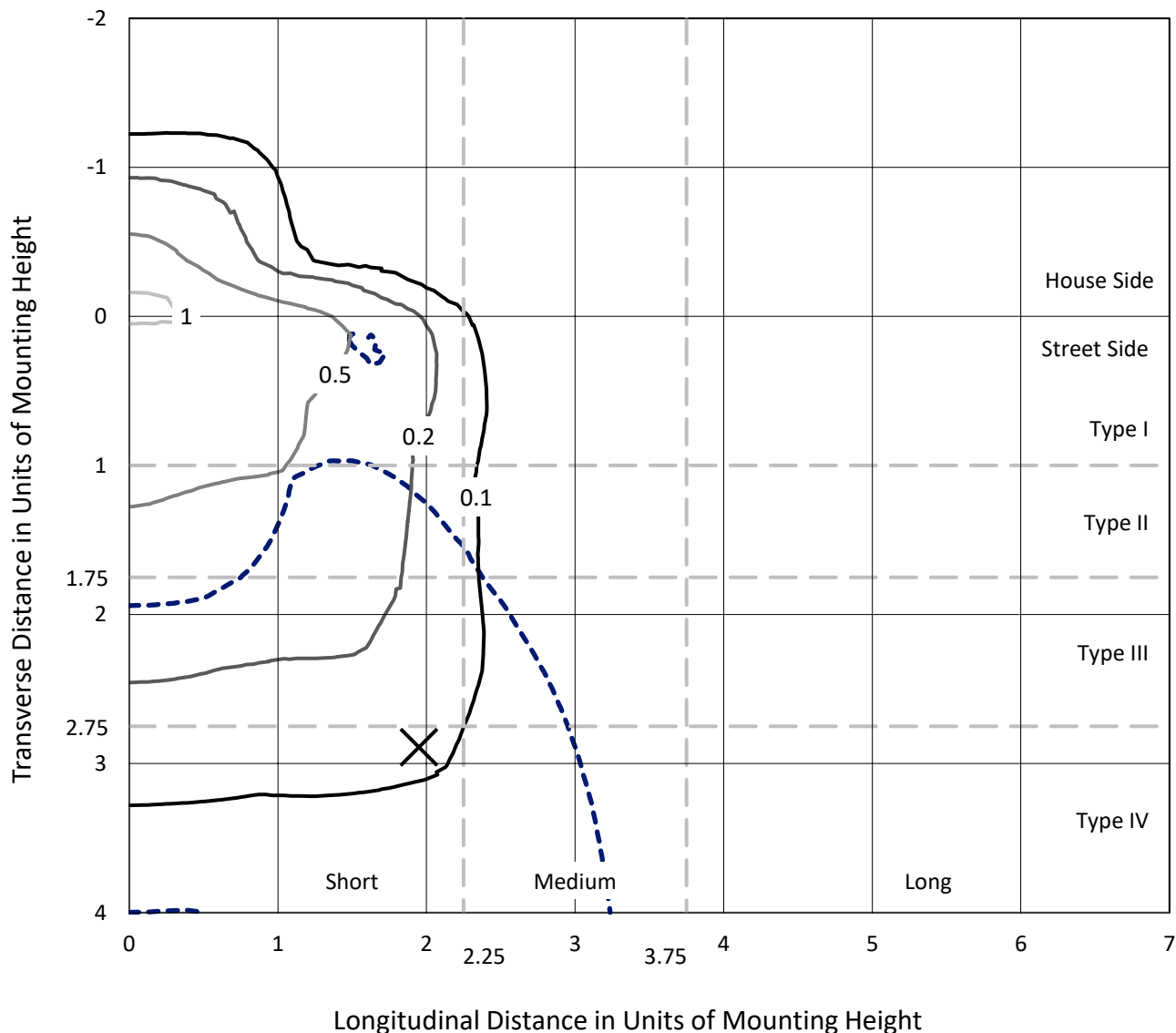
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

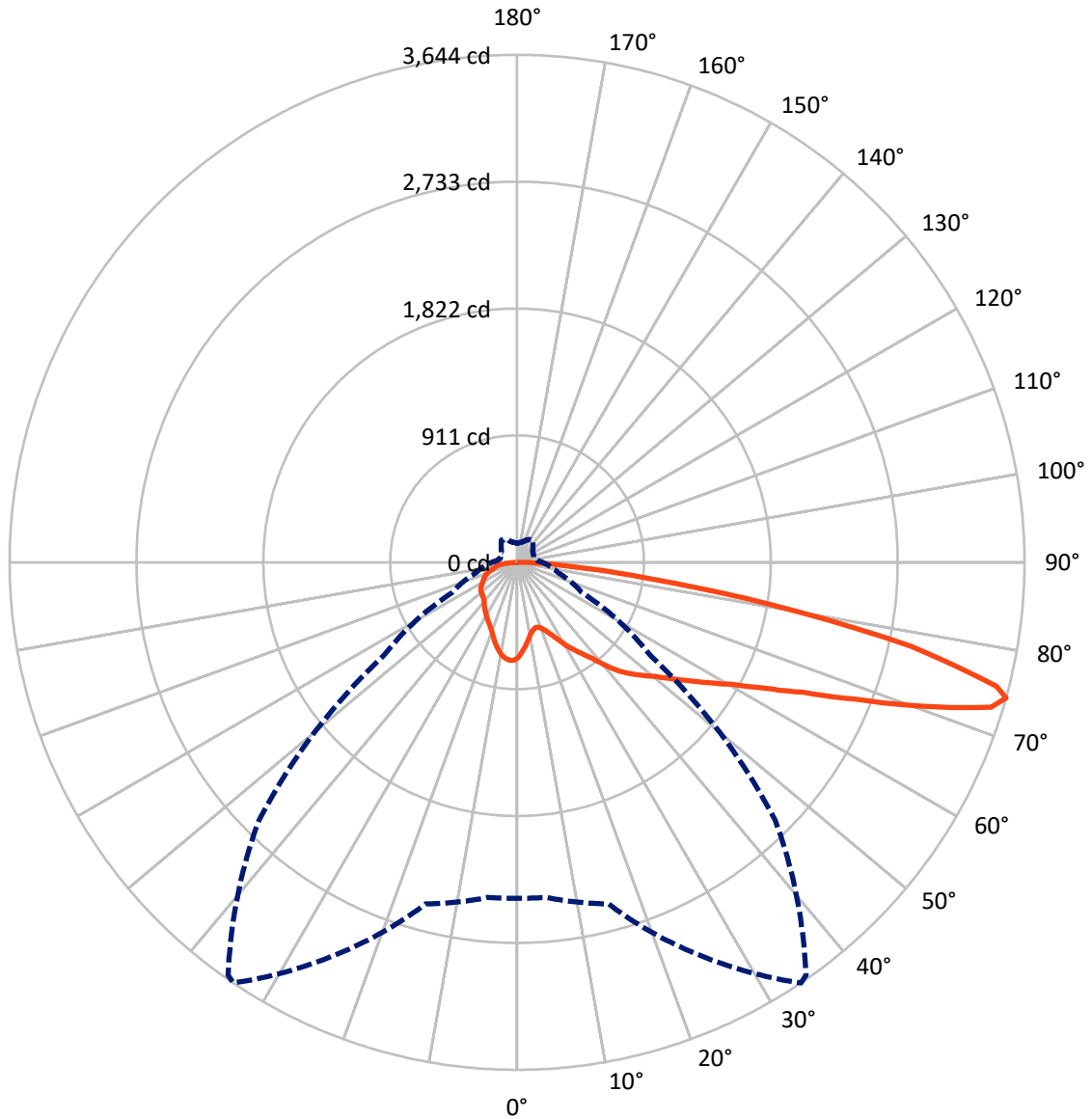
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	957.3	0.0	957.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	3541.1	0.0	3541.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	4498.3	0.0	4498.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.5	1.4
10°-20°	171.0	3.8
20°-30°	281.9	6.3
30°-40°	422.3	9.4
40°-50°	613.9	13.6
50°-60°	857.4	19.1
60°-70°	1073.5	23.9
70°-80°	887.7	19.7
80°-90°	128.3	2.9
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°	4498.3	100.0
0°-180°	4498.3	100.0

Coefficient of Utilization

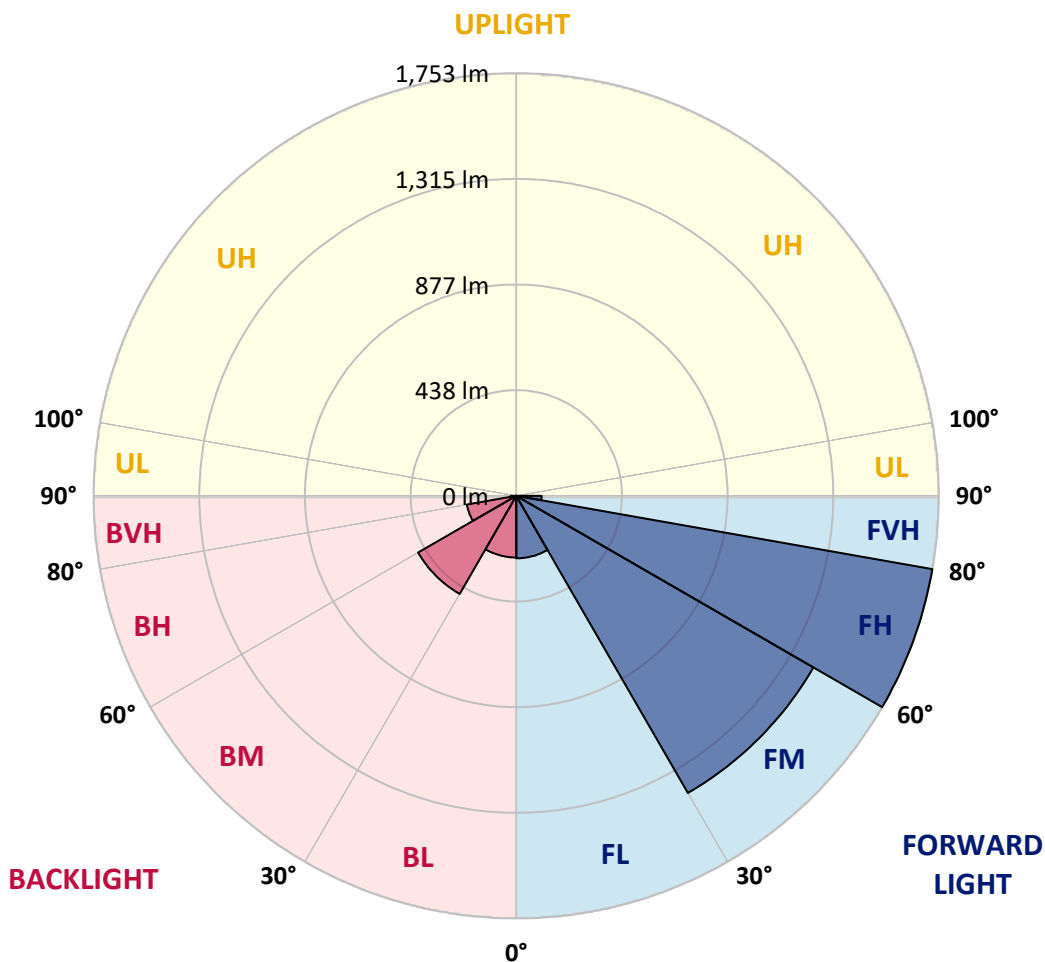


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	259.3	5.8			
FM (30°-60°)	1423.5	31.6			
FH (60°-80°)	1753.2	39.0			G1/1800
FVH (80°-90°)	105.1	2.3			G2/225
BL (0°-30°)	256.1	5.7	B1/500		
BM (30°-60°)	470.1	10.5	B1/1000		
BH (60°-80°)	207.9	4.6	B1/500		G1/500
BVH (80°-90°)	23.2	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-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	686.8	686.8	686.8	686.8	686.8	686.8	686.8	686.8	686.8	686.8	686.8
2.5°	634.7	638.0	639.7	646.0	647.5	649.4	654.7	661.6	670.6	678.5	685.6
5°	581.9	586.9	589.8	595.3	606.0	607.1	621.0	637.0	655.1	672.1	686.1
7.5°	531.8	537.3	539.8	549.7	563.9	566.2	586.6	611.8	642.2	667.9	689.3
10°	494.2	496.9	502.4	509.9	526.8	528.3	555.0	588.7	628.0	665.9	694.8
12.5°	473.7	475.2	476.5	484.4	501.1	503.4	531.3	569.4	616.8	667.4	703.8
15°	476.7	477.2	471.8	473.2	486.7	489.9	517.6	556.7	609.8	671.1	717.2
17.5°	501.9	500.2	486.7	479.7	489.2	490.7	514.8	551.7	606.6	678.1	731.2
20°	541.5	539.0	515.8	500.4	505.9	507.1	523.8	555.5	609.8	689.5	752.9
22.5°	590.9	589.8	554.8	536.0	535.8	535.8	544.5	568.9	619.5	705.2	775.6
25°	659.9	654.7	608.8	584.7	577.9	577.4	576.4	591.1	632.0	721.9	802.4
27.5°	730.7	721.7	680.8	643.7	629.2	627.5	621.0	622.5	647.9	740.9	833.1
30°	794.2	788.5	750.1	709.0	691.8	687.8	669.9	661.6	674.6	775.0	882.0
32.5°	842.8	839.3	809.4	772.0	746.6	745.9	719.7	713.0	716.2	816.4	937.7
35°	882.2	883.5	868.2	835.9	806.6	802.4	785.0	776.5	767.0	876.2	1008.0
37.5°	936.0	938.7	937.7	909.8	874.2	875.2	871.2	857.2	832.1	943.0	1086.0
40°	995.3	997.3	997.1	986.3	967.6	968.6	967.2	951.2	913.6	1028.0	1172.8
42.5°	1077.3	1067.9	1043.2	1053.9	1064.9	1069.6	1079.8	1064.6	1013.0	1118.7	1254.2
45°	1169.0	1151.1	1095.3	1100.3	1140.8	1149.8	1206.1	1185.2	1120.9	1222.8	1350.2
47.5°	1226.8	1209.1	1162.1	1161.0	1214.9	1223.6	1323.3	1315.5	1219.1	1335.2	1467.3
50°	1278.4	1275.9	1222.8	1235.6	1288.1	1301.1	1450.9	1443.6	1317.0	1467.8	1594.9
52.5°	1354.9	1334.7	1292.3	1318.6	1388.1	1405.0	1577.4	1556.3	1407.0	1584.9	1718.8
55°	1389.3	1384.6	1382.1	1404.8	1500.2	1512.4	1700.6	1652.0	1483.8	1684.2	1813.0
57.5°	1481.3	1472.5	1497.3	1512.7	1632.3	1651.0	1829.2	1751.9	1551.0	1762.8	1858.8
60°	1600.4	1595.7	1618.3	1646.3	1779.8	1808.3	1975.7	1837.2	1605.2	1802.5	1833.6
62.5°	1778.3	1777.8	1773.6	1833.4	1988.9	2015.1	2143.9	1920.2	1613.6	1772.9	1703.6
65°	2033.5	2024.5	1987.6	2052.9	2249.1	2279.7	2319.1	1966.5	1562.5	1620.6	1434.5
67.5°	2300.4	2299.9	2270.0	2354.7	2622.7	2654.3	2538.2	1956.2	1420.7	1312.8	1018.8
70°	2521.7	2511.0	2549.1	2774.9	3099.8	3136.5	2729.8	1835.9	1131.7	867.0	605.3
72.5°	2574.7	2575.3	2654.5	3098.9	3558.1	3563.9	2798.8	1488.0	757.3	478.3	302.8
74°	2411.3	2415.6	2538.4	3115.1	3643.6	3617.7	2622.3	1169.5	512.1	312.3	218.3
75°	2200.9	2174.3	2352.0	3007.1	3554.9	3527.0	2415.8	938.5	390.7	249.5	191.1
77.5°	1176.8	1203.9	1478.1	2244.1	2888.0	2855.9	1638.0	450.1	211.1	173.7	137.6
80°	418.9	462.0	649.4	1174.3	1851.6	1861.6	781.7	206.3	148.5	128.1	97.2
82.5°	170.9	175.7	278.8	521.1	940.2	949.2	319.2	122.6	106.2	88.2	58.1
85°	66.8	68.7	123.3	234.3	401.2	427.4	110.4	64.8	65.3	50.6	29.7
87.5°	22.4	25.4	50.6	78.0	136.3	133.6	32.2	19.2	23.4	21.9	9.2
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°	686.8	686.8	686.8	686.8	686.8	686.8	686.8	686.8	686.8	686.8	686.8
2.5°	689.0	693.8	697.0	700.6	703.8	704.8	704.0	706.3	706.5	706.7	707.0
5°	693.0	699.5	705.7	709.2	710.7	709.5	705.2	703.0	701.0	699.5	700.0
7.5°	698.5	707.8	713.5	715.0	711.0	705.2	694.8	686.5	681.3	677.8	677.6
10°	707.0	716.0	720.7	716.4	705.5	691.5	675.1	659.7	647.9	644.4	644.2
12.5°	717.7	728.0	727.6	715.2	696.0	671.1	644.4	626.5	610.6	602.6	605.8
15°	731.6	739.4	732.2	709.7	679.3	645.2	612.3	587.9	569.9	561.5	562.0
17.5°	747.8	754.6	735.4	700.0	655.9	612.1	573.9	550.8	536.5	530.3	529.8
20°	768.0	770.0	735.4	683.1	625.8	573.4	537.1	520.9	512.9	509.7	510.6
22.5°	789.7	785.7	731.4	659.1	586.2	533.1	508.6	501.4	497.4	496.9	497.4
25°	814.2	803.0	723.2	626.7	544.7	498.1	484.0	485.2	485.9	485.9	487.7
27.5°	844.1	821.6	709.5	585.8	496.4	465.7	461.8	470.5	474.5	475.2	476.5
30°	883.5	842.0	686.8	534.8	455.3	436.6	443.6	455.3	459.8	462.5	462.0
32.5°	930.3	864.5	656.2	483.7	422.1	416.2	424.6	436.6	441.6	443.1	441.1
35°	985.3	889.9	615.8	435.9	393.2	396.7	406.7	410.4	414.9	414.9	415.9
37.5°	1044.7	910.3	566.4	392.0	370.8	383.5	390.7	387.3	385.2	382.8	384.1
40°	1105.0	925.5	502.4	348.7	348.4	369.8	371.8	361.8	353.8	351.4	350.2
42.5°	1157.6	935.0	444.6	315.0	327.2	356.3	357.8	341.9	329.2	321.7	319.2
45°	1219.6	945.9	388.0	287.0	307.5	345.6	349.4	327.9	309.3	293.5	289.6
47.5°	1304.6	970.9	343.4	265.4	293.3	338.9	344.1	316.5	291.8	271.4	268.2
50°	1400.6	1005.1	308.7	250.7	282.3	332.9	339.4	304.7	275.6	252.9	250.5
52.5°	1488.5	1023.5	278.8	237.5	271.6	322.0	333.2	296.3	259.6	234.5	232.2
55°	1536.6	993.5	249.5	224.6	256.9	307.8	324.5	284.6	244.2	224.8	221.5
57.5°	1543.1	931.8	222.8	210.5	241.5	290.3	308.3	270.4	234.3	218.1	215.3
60°	1492.9	839.5	202.1	199.1	225.8	270.6	290.1	257.9	224.0	210.5	207.8
62.5°	1368.4	739.4	187.7	188.6	209.8	249.9	276.6	245.9	214.3	202.3	199.9
65°	1154.1	610.3	173.7	177.9	195.6	233.7	264.4	236.0	204.6	196.1	193.9
67.5°	801.7	440.6	162.2	166.7	182.2	217.3	250.2	225.3	193.6	189.2	185.6
70°	443.8	271.2	148.8	154.0	168.2	198.9	234.3	209.1	177.7	175.7	170.7
72.5°	233.3	172.7	133.6	139.3	149.2	175.2	209.8	191.4	162.0	153.5	147.0
74°	182.2	141.6	123.3	129.4	136.1	161.2	195.4	178.7	150.8	140.8	135.9
75°	158.7	126.1	114.6	122.4	128.3	151.7	184.2	169.7	144.5	135.1	130.6
77.5°	112.1	94.4	93.7	102.9	106.2	133.1	166.0	154.5	128.8	118.9	114.6
80°	78.8	70.8	74.2	80.0	84.5	117.6	154.0	133.6	105.6	94.0	92.5
82.5°	51.4	46.4	53.1	58.3	59.8	86.8	124.3	101.4	77.0	62.6	58.1
85°	23.6	23.2	30.4	29.7	29.4	42.4	73.8	59.3	44.4	33.1	31.2
87.5°	6.0	5.7	7.4	6.3	7.4	6.5	6.7	1.7	0.2	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)