

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: P269002

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL4-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3390 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

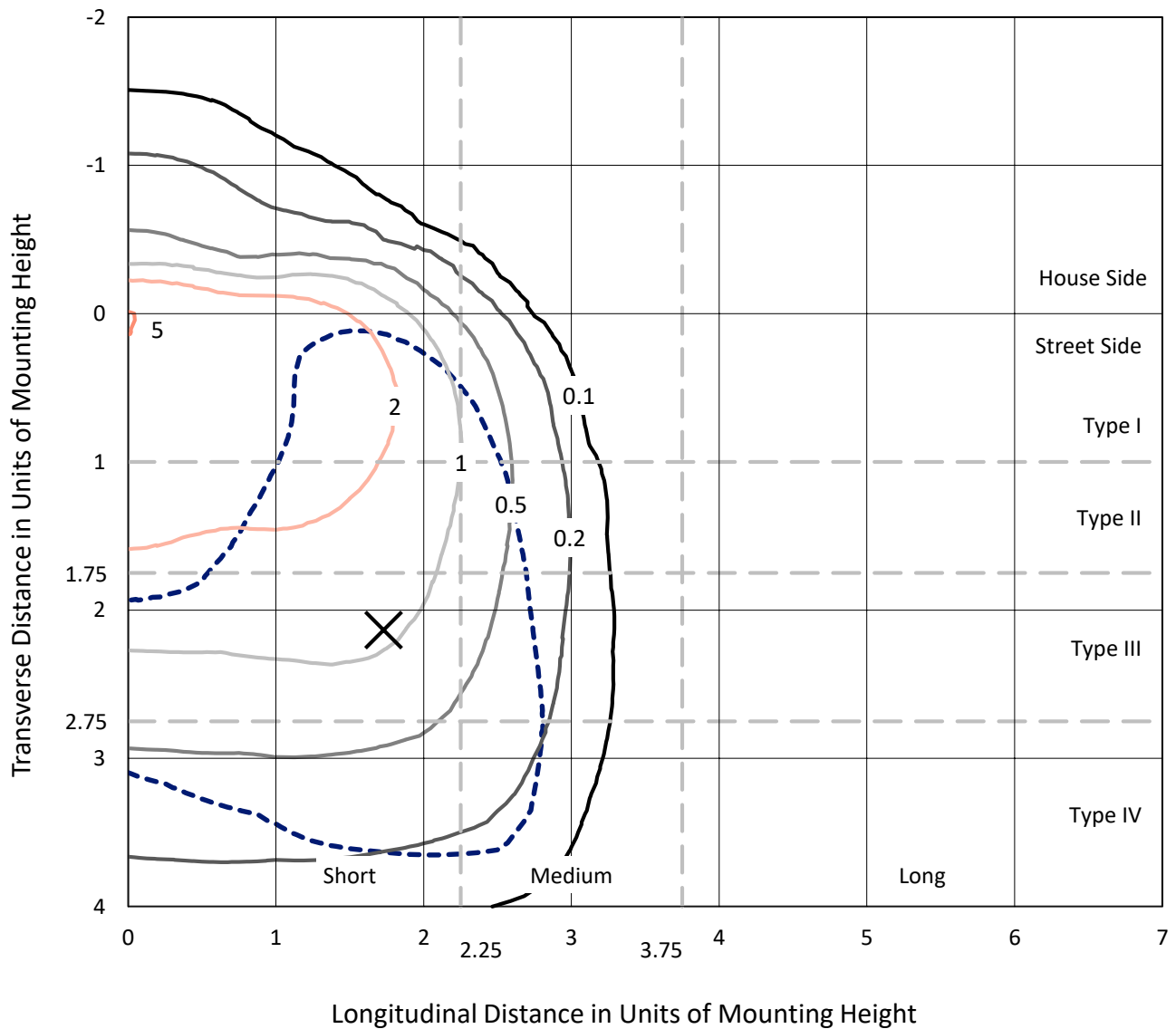
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

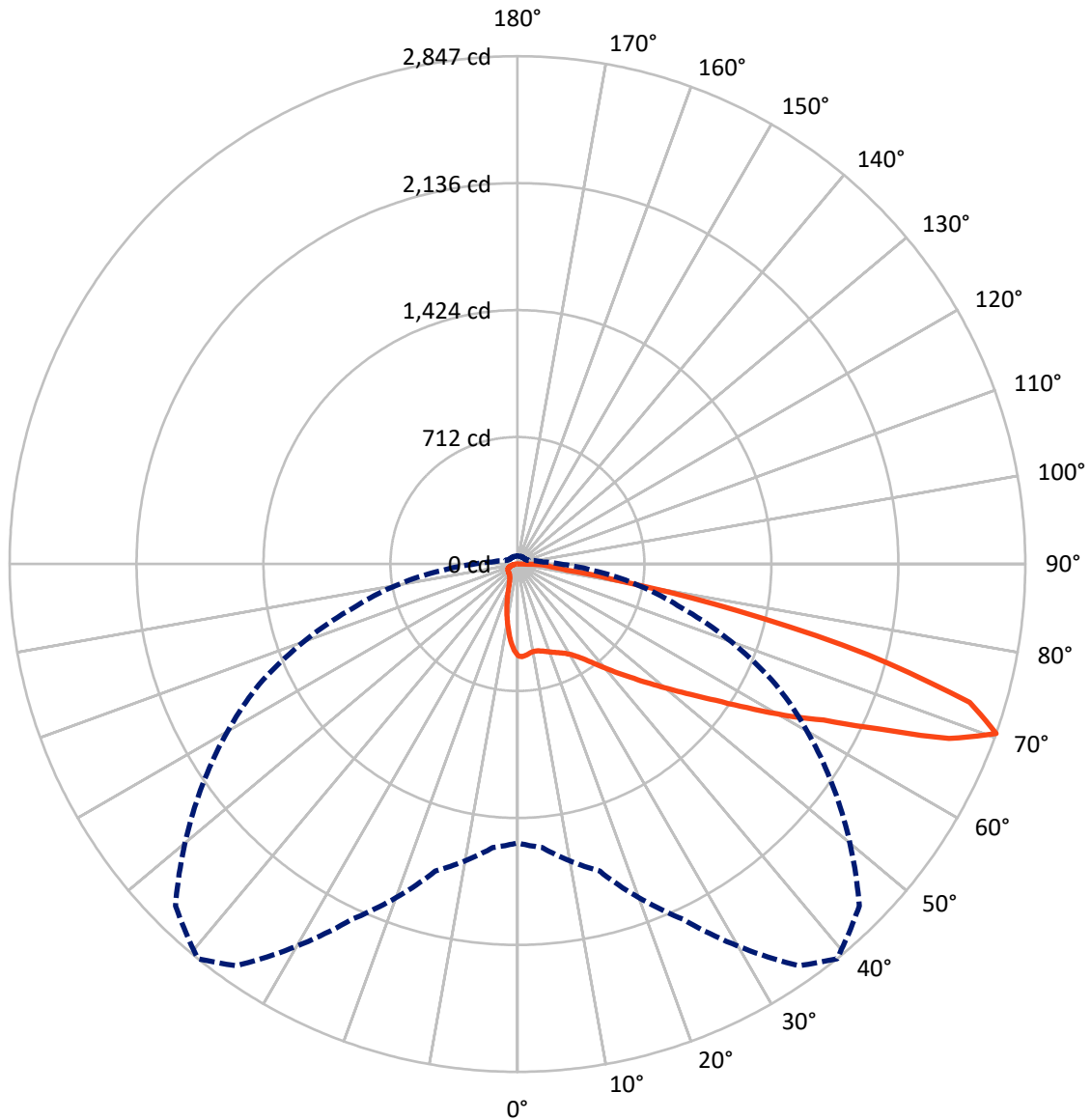
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	385.6	0.0	385.6
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	3004.5	0.0	3004.5
	% Fixture	88.6	0.0	88.6
Total	Lumens	3390.0	0.0	3390.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.2	1.3
10°-20°	110.4	3.3
20°-30°	171.9	5.1
30°-40°	267.8	7.9
40°-50°	449.6	13.3
50°-60°	714.2	21.1
60°-70°	952.6	28.1
70°-80°	575.3	17.0
80°-90°	104.1	3.1
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°	3390.0	100.0
0°-180°	3390.0	100.0



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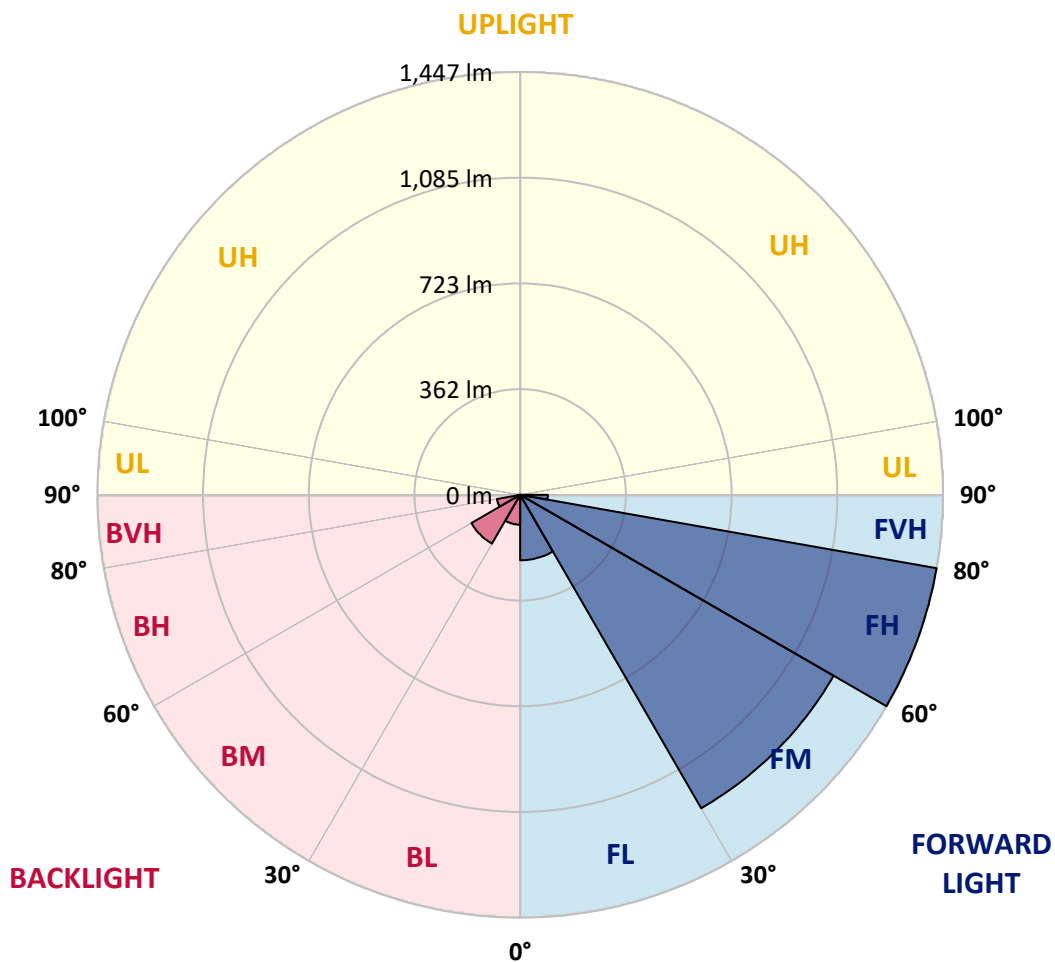
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	224.2	6.6			
FM	(30°-60°)	1238.6	36.5			
FH	(60°-80°)	1447.0	42.7			G1/1800
FVH	(80°-90°)	94.7	2.8			G1/100
BL	(0°-30°)	102.3	3.0	B0/110		
BM	(30°-60°)	193.0	5.7	B0/220		
BH	(60°-80°)	81.0	2.4	B0/110		G0/110
BVH	(80°-90°)	9.4	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	514.6	514.6	514.6	514.6	514.6	514.6	514.6	514.6	514.6	514.6	514.6
2.5°	524.7	524.5	523.2	522.0	521.1	520.8	521.6	519.0	516.7	514.0	511.0
5°	520.7	520.5	518.3	516.3	514.1	513.4	513.3	508.6	505.8	501.8	496.3
7.5°	516.3	515.4	512.7	509.2	505.6	503.8	502.2	496.0	492.9	488.8	482.4
10°	511.9	510.9	508.1	504.7	501.3	498.6	495.8	489.8	486.5	483.5	476.0
12.5°	507.3	506.4	505.7	504.2	501.8	499.5	497.2	492.2	488.8	485.2	476.6
15°	506.6	506.3	507.7	508.8	507.5	506.0	503.6	499.3	495.8	492.1	481.0
17.5°	512.0	511.9	515.8	518.6	518.0	515.4	512.3	507.5	504.5	501.3	487.4
20°	524.2	525.0	529.8	533.5	530.0	526.5	521.1	514.5	512.9	511.6	494.2
22.5°	546.9	547.7	551.2	552.5	543.7	538.7	531.2	522.5	521.6	522.5	502.2
25°	582.5	581.6	581.1	575.9	559.5	551.6	542.2	533.2	533.9	538.4	513.7
27.5°	629.4	624.9	617.6	602.0	576.1	567.4	555.8	547.5	550.8	559.9	530.7
30°	678.2	673.1	656.3	631.0	597.7	588.3	575.4	566.0	574.6	588.7	553.4
32.5°	723.3	722.6	698.3	665.6	627.7	619.4	606.5	596.0	609.9	631.5	587.6
35°	772.7	774.2	745.0	705.8	668.2	659.6	650.4	642.4	661.1	690.6	637.1
37.5°	825.5	828.5	793.9	749.7	714.4	710.7	705.3	701.8	730.6	771.6	706.2
40°	895.9	892.8	844.8	799.4	771.1	770.9	769.2	773.4	821.3	877.5	794.9
42.5°	971.3	962.3	898.7	852.6	833.4	839.1	842.7	859.6	930.4	1006.0	903.2
45°	1052.8	1032.2	954.7	909.1	902.4	914.8	926.6	963.3	1058.8	1152.3	1021.7
47.5°	1117.8	1097.9	1012.6	968.2	982.4	1001.3	1023.8	1081.9	1202.6	1303.5	1138.8
50°	1169.0	1155.9	1071.0	1037.1	1070.5	1099.4	1136.4	1216.1	1352.2	1450.8	1247.1
52.5°	1218.6	1208.8	1130.0	1107.7	1173.9	1213.9	1264.0	1360.3	1505.6	1595.5	1338.4
55°	1263.3	1256.5	1193.4	1195.9	1295.6	1347.6	1410.8	1524.3	1672.7	1724.7	1415.5
57.5°	1314.0	1305.1	1265.8	1306.2	1451.9	1519.6	1601.6	1708.8	1829.6	1839.4	1474.4
60°	1364.7	1357.2	1346.1	1433.9	1650.5	1721.5	1799.2	1887.5	1988.7	1928.5	1471.0
62.5°	1408.8	1409.7	1429.3	1567.7	1844.8	1927.1	2021.9	2109.1	2132.5	1944.0	1362.1
65°	1483.6	1497.2	1555.3	1757.4	2118.7	2228.5	2344.9	2330.9	2172.5	1799.0	1128.9
67.5°	1572.7	1596.6	1714.2	2010.0	2464.5	2610.6	2655.5	2381.0	2012.9	1462.4	804.7
70°	1563.6	1596.6	1782.9	2198.4	2749.6	2847.4	2711.1	2154.9	1598.4	955.3	427.5
72.5°	1388.5	1435.6	1643.1	2112.1	2659.8	2651.2	2353.6	1606.6	949.7	383.7	167.1
75°	1058.3	1105.9	1284.3	1668.6	2102.3	2029.9	1669.9	887.4	360.4	152.4	105.3
77.5°	608.8	645.6	783.5	1023.3	1333.8	1259.5	929.6	394.6	175.4	106.2	82.3
80°	339.9	360.4	444.1	519.1	653.5	599.1	415.8	245.2	131.1	77.1	63.4
82.5°	268.8	287.0	359.2	327.5	298.5	275.4	238.9	218.4	104.7	48.6	37.9
85°	234.7	252.2	304.0	257.9	203.8	186.9	194.0	215.0	81.3	29.4	32.3
87.5°	217.5	240.7	271.0	198.7	158.7	140.7	179.1	235.6	26.2	18.2	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°	514.6	514.6	514.6	514.6	514.6	514.6	514.6	514.6	514.6	514.6	514.6
2.5°	508.4	505.7	501.3	497.2	491.1	487.8	484.1	481.6	479.4	477.8	480.6
5°	492.8	487.6	478.1	467.9	455.9	446.4	438.6	431.0	425.8	422.5	424.9
7.5°	478.0	469.5	454.7	436.2	415.6	397.9	383.4	370.7	361.9	356.3	358.6
10°	469.5	458.9	436.0	407.1	376.6	349.3	326.4	306.9	293.1	285.4	286.6
12.5°	467.5	453.9	422.2	382.3	340.5	302.5	270.4	243.3	224.0	214.1	214.4
15°	468.9	451.6	409.0	358.6	305.8	257.6	217.7	184.6	162.4	150.9	150.8
17.5°	471.6	449.8	395.3	332.8	270.4	214.5	170.0	137.5	117.9	108.8	108.1
20°	474.3	447.0	379.8	305.1	233.6	174.6	133.0	107.7	95.3	90.3	90.0
22.5°	478.3	444.8	363.6	275.8	197.6	142.2	109.5	92.3	85.9	83.3	83.0
25°	484.6	443.5	346.7	245.2	165.3	118.9	95.3	84.8	80.9	79.3	79.1
27.5°	495.3	445.2	330.5	215.7	138.9	103.2	87.3	80.9	78.2	76.6	76.5
30°	509.2	450.5	313.7	187.6	118.3	92.5	82.6	78.4	76.1	74.6	74.6
32.5°	532.1	459.6	295.9	163.2	103.8	85.2	79.0	76.1	74.3	73.1	72.9
35°	565.8	476.5	279.5	143.1	93.2	79.8	75.8	73.8	72.5	71.8	71.8
37.5°	615.0	503.1	264.7	128.5	86.9	76.1	72.9	71.3	70.4	70.4	70.4
40°	680.9	540.1	252.9	118.9	83.3	73.7	70.6	69.4	68.9	69.1	69.1
42.5°	762.5	587.9	244.9	112.2	81.6	72.0	69.1	68.1	67.6	67.5	67.6
45°	855.5	642.4	244.1	107.2	79.8	71.1	68.1	67.1	66.0	65.3	65.3
47.5°	945.7	697.8	251.2	105.6	78.0	69.8	67.3	66.1	64.7	63.2	63.2
50°	1025.5	744.8	260.6	106.2	77.3	68.1	65.8	65.3	62.9	61.2	61.1
52.5°	1088.9	780.9	268.4	108.2	78.0	66.8	64.0	64.3	61.8	59.7	59.6
55°	1139.8	804.7	266.3	110.3	79.5	66.1	62.5	62.9	60.8	59.0	59.0
57.5°	1162.0	796.0	243.4	108.5	80.7	66.4	61.4	62.7	61.1	59.3	59.3
60°	1114.3	717.8	200.4	101.0	79.1	65.8	60.8	63.4	63.2	61.5	61.4
62.5°	969.9	578.1	155.4	89.8	73.8	63.2	59.5	63.2	65.1	64.7	64.5
65°	747.5	411.8	118.8	77.8	66.6	59.0	55.9	59.3	61.9	62.5	62.4
67.5°	485.2	252.3	91.4	66.4	58.4	54.0	51.3	52.7	53.3	53.3	52.9
70°	238.5	135.9	72.9	55.9	50.1	48.6	47.0	46.3	45.4	44.6	44.6
72.5°	117.7	88.8	59.9	47.3	43.3	42.6	42.2	41.2	40.6	39.6	39.3
75°	87.0	72.3	51.1	39.9	37.2	36.6	37.2	36.4	36.2	35.6	35.2
77.5°	71.5	61.5	43.9	34.1	31.9	30.7	31.7	31.9	32.1	31.0	30.7
80°	58.1	52.0	36.7	28.2	26.2	25.3	26.1	27.4	27.8	26.2	25.5
82.5°	42.0	42.6	29.6	22.1	20.3	19.7	21.0	22.7	23.0	20.8	20.3
85°	35.2	35.6	22.7	15.7	14.0	12.9	15.2	16.9	18.1	15.9	15.4
87.5°	14.6	20.8	13.0	8.9	7.7	6.6	8.2	9.0	10.9	10.1	9.8
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)