

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: P193769

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193769
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-SL4-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 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: 3184 lumens
Efficiency: N/A
Efficacy: 93.6 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

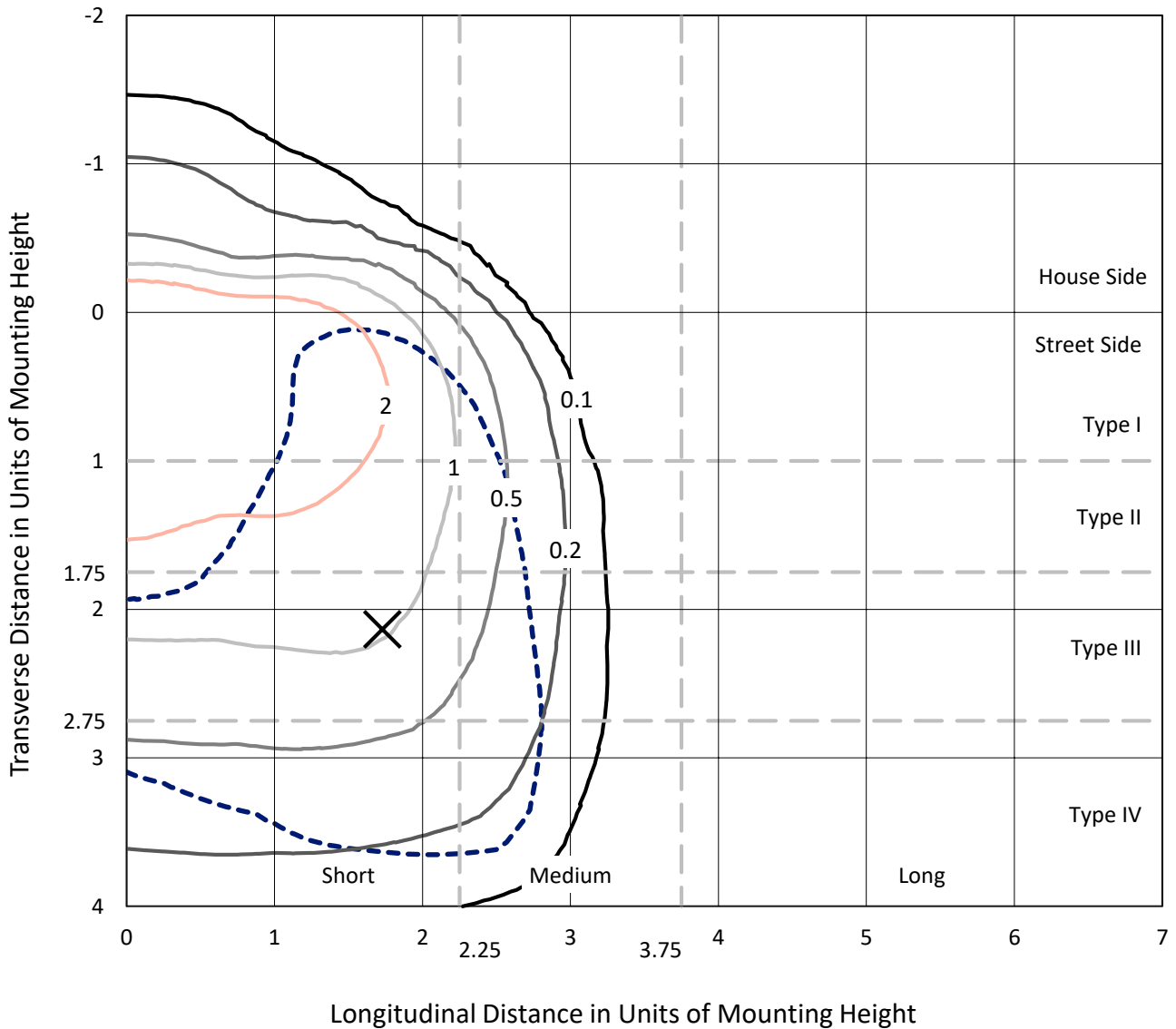


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Iso-Footcandle Lines of Horizontal Illumination

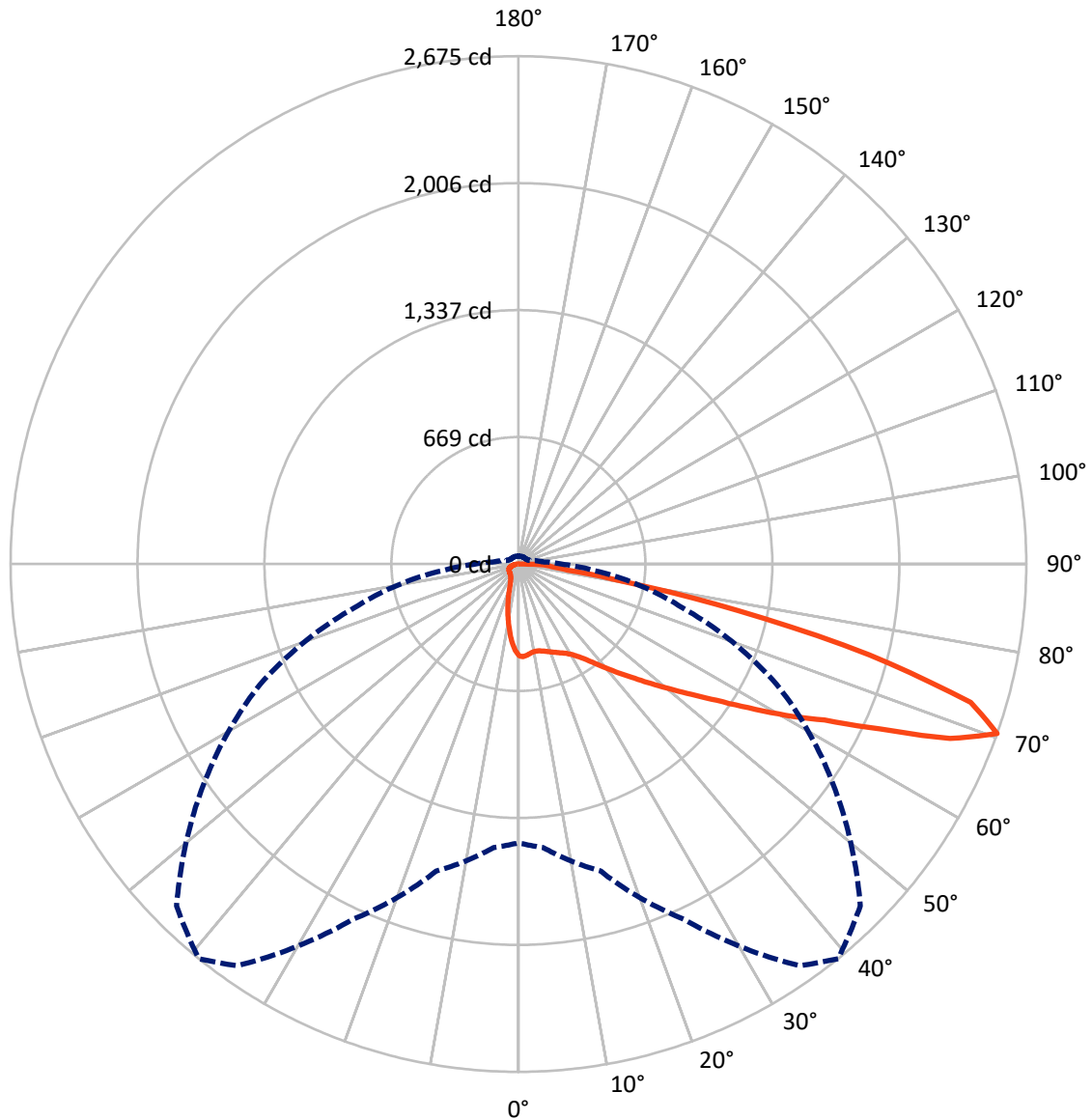
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 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	362.1	0.0	362.1
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	2821.9	0.0	2821.9
	% Fixture	88.6	0.0	88.6
Total	Lumens	3184.0	0.0	3184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.5	1.3
10°-20°	103.7	3.3
20°-30°	161.5	5.1
30°-40°	251.5	7.9
40°-50°	422.2	13.3
50°-60°	670.8	21.1
60°-70°	894.7	28.1
70°-80°	540.3	17.0
80°-90°	97.8	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°	3184.0	100.0
0°-180°	3184.0	100.0

Coefficient of Utilization



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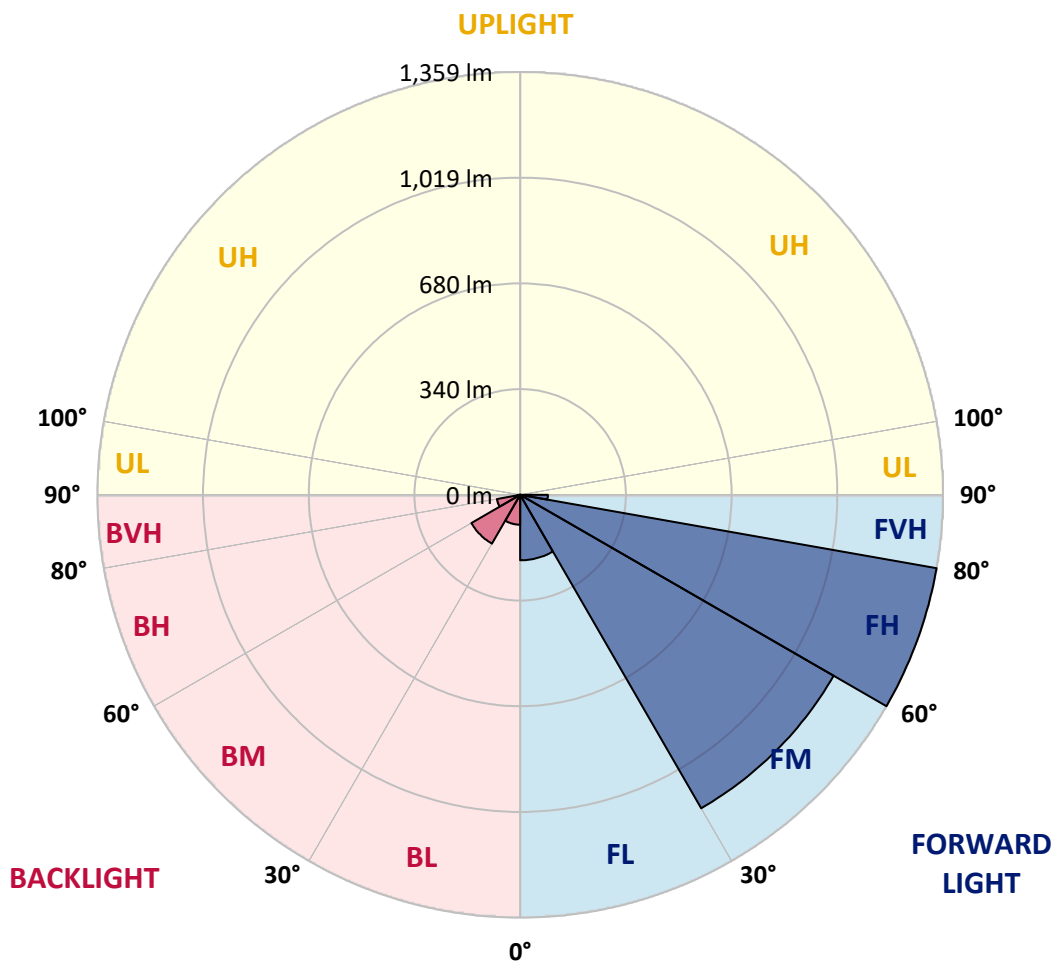
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	210.6	6.6			
FM	(30°-60°)	1163.3	36.5			
FH	(60°-80°)	1359.0	42.7			G1/1800
FVH	(80°-90°)	89.0	2.8			G1/100
BL	(0°-30°)	96.1	3.0	B0/110		
BM	(30°-60°)	181.2	5.7	B0/220		
BH	(60°-80°)	76.0	2.4	B0/110		G0/110
BVH	(80°-90°)	8.8	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°	483.4	483.4	483.4	483.4	483.4	483.4	483.4	483.4	483.4	483.4	483.4
2.5°	492.8	492.6	491.3	490.3	489.5	489.2	489.9	487.4	485.3	482.7	480.0
5°	489.0	488.9	486.8	484.8	482.9	482.2	482.1	477.7	475.1	471.2	466.1
7.5°	485.0	484.2	481.4	478.2	474.8	473.2	471.6	465.9	463.0	459.1	453.1
10°	480.8	479.8	477.2	474.0	470.8	468.3	465.6	460.1	457.0	454.1	447.1
12.5°	476.4	475.6	475.0	473.5	471.2	469.1	467.0	462.3	459.1	455.7	447.6
15°	475.8	475.4	476.9	477.9	476.6	475.3	473.0	469.0	465.6	462.2	451.7
17.5°	481.0	480.8	484.5	487.1	486.5	484.2	481.1	476.6	473.8	470.9	457.8
20°	492.3	493.1	497.6	501.0	497.8	494.6	489.5	483.2	481.8	480.5	464.1
22.5°	513.7	514.5	517.7	519.0	510.6	505.9	498.9	490.8	489.9	490.8	471.7
25°	547.0	546.2	545.7	540.8	525.5	518.2	509.3	500.9	501.3	505.7	482.4
27.5°	591.2	586.8	580.0	565.5	541.0	532.9	522.1	514.3	517.4	525.8	498.4
30°	637.0	632.2	616.4	592.7	561.4	552.5	540.4	531.6	539.7	553.0	519.8
32.5°	679.4	678.8	655.8	625.2	589.6	581.8	569.7	559.8	572.9	593.1	551.9
35°	725.7	727.2	699.7	662.9	627.6	619.5	610.8	603.3	620.8	648.7	598.3
37.5°	775.3	778.2	745.6	704.2	671.0	667.6	662.4	659.2	686.2	724.7	663.2
40°	841.5	838.6	793.4	750.8	724.3	724.1	722.5	726.4	771.4	824.1	746.6
42.5°	912.4	903.8	844.1	800.8	782.7	788.2	791.4	807.3	873.8	944.9	848.3
45°	988.8	969.5	896.7	853.8	847.6	859.3	870.3	904.8	994.4	1082.3	959.6
47.5°	1049.8	1031.2	951.1	909.3	922.7	940.4	961.6	1016.1	1129.5	1224.3	1069.6
50°	1097.9	1085.7	1005.9	974.0	1005.5	1032.6	1067.3	1142.2	1270.0	1362.6	1171.4
52.5°	1144.5	1135.4	1061.3	1040.4	1102.6	1140.1	1187.2	1277.6	1414.0	1498.5	1257.0
55°	1186.6	1180.1	1120.9	1123.1	1216.9	1265.8	1325.0	1431.7	1571.1	1619.8	1329.5
57.5°	1234.0	1225.8	1188.9	1226.9	1363.7	1427.2	1504.2	1604.9	1718.4	1727.6	1384.7
60°	1281.8	1274.7	1264.3	1346.7	1550.2	1616.9	1689.9	1772.8	1867.8	1811.3	1381.5
62.5°	1323.2	1324.0	1342.3	1472.5	1732.8	1810.0	1899.0	1981.0	2003.0	1825.9	1279.4
65°	1393.5	1406.3	1460.8	1650.6	1989.9	2093.1	2202.4	2189.3	2040.4	1689.7	1060.3
67.5°	1477.0	1499.5	1610.1	1887.9	2314.8	2451.9	2494.1	2236.4	1890.6	1373.6	755.8
70°	1468.6	1499.5	1674.5	2064.8	2582.5	2674.5	2546.2	2024.0	1501.3	897.3	401.5
72.5°	1304.1	1348.3	1543.2	1983.7	2498.2	2490.1	2210.5	1508.9	892.0	360.4	156.9
75°	994.0	1038.6	1206.3	1567.2	1974.5	1906.5	1568.5	833.5	338.5	143.1	98.9
77.5°	571.8	606.4	735.9	961.1	1252.6	1182.9	873.0	370.7	164.8	99.7	77.2
80°	319.2	338.5	417.2	487.6	613.9	562.7	390.6	230.4	123.0	72.4	59.6
82.5°	252.4	269.5	337.4	307.6	280.4	258.7	224.4	205.1	98.3	45.7	35.6
85°	220.5	236.8	285.6	242.2	191.5	175.6	182.3	201.9	76.4	27.5	30.4
87.5°	204.3	226.1	254.5	186.7	149.1	132.1	168.2	221.3	24.6	17.2	12.3
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°	483.4	483.4	483.4	483.4	483.4	483.4	483.4	483.4	483.4	483.4	483.4
2.5°	477.6	475.0	470.8	467.0	461.2	458.1	454.7	452.3	450.4	448.7	451.3
5°	462.8	458.0	449.1	439.5	428.2	419.3	411.8	404.9	400.0	396.8	399.0
7.5°	448.9	441.0	427.0	409.7	390.3	373.8	360.2	348.2	340.0	334.6	336.7
10°	441.0	431.1	409.6	382.4	353.7	328.0	306.6	288.2	275.4	268.1	269.2
12.5°	439.0	426.2	396.4	359.1	319.9	284.1	254.0	228.4	210.4	201.1	201.4
15°	440.5	424.1	384.1	336.7	287.2	242.0	204.5	173.4	152.5	141.8	141.6
17.5°	442.9	422.5	371.2	312.6	254.0	201.5	159.6	129.2	110.7	102.1	101.5
20°	445.5	419.9	356.6	286.5	219.5	164.0	125.0	101.2	89.5	84.8	84.5
22.5°	449.2	417.7	341.6	259.0	185.7	133.6	102.8	86.8	80.6	78.2	77.9
25°	455.2	416.5	325.5	230.4	155.2	111.7	89.5	79.6	76.1	74.5	74.3
27.5°	465.2	418.1	310.5	202.5	130.5	97.0	82.1	76.1	73.5	72.0	71.9
30°	478.2	423.2	294.6	176.1	111.2	86.9	77.5	73.7	71.6	70.1	70.1
32.5°	499.7	431.6	278.0	153.3	97.5	80.0	74.1	71.6	69.8	68.6	68.5
35°	531.5	447.4	262.4	134.4	87.6	75.0	71.2	69.3	68.0	67.3	67.3
37.5°	577.6	472.5	248.7	120.8	81.6	71.6	68.5	67.0	66.2	66.2	66.2
40°	639.6	507.2	237.5	111.7	78.2	69.1	66.4	65.2	64.8	64.9	64.9
42.5°	716.2	552.2	230.0	105.4	76.6	67.7	64.9	63.9	63.5	63.3	63.5
45°	803.4	603.3	229.2	100.7	75.0	66.7	63.9	63.0	62.0	61.4	61.4
47.5°	888.2	655.3	235.9	99.1	73.2	65.6	63.1	62.2	60.7	59.2	59.2
50°	963.2	699.5	244.8	99.7	72.5	63.9	61.8	61.4	59.1	57.5	57.3
52.5°	1022.8	733.5	252.1	101.7	73.2	62.8	60.2	60.4	58.0	56.2	56.0
55°	1070.5	755.8	250.1	103.6	74.6	62.2	58.8	59.1	57.1	55.4	55.4
57.5°	1091.4	747.6	228.6	102.0	75.8	62.3	57.6	58.9	57.3	55.7	55.7
60°	1046.6	674.2	188.3	94.9	74.3	61.8	57.1	59.6	59.4	57.8	57.6
62.5°	910.9	543.0	146.0	84.3	69.3	59.4	55.8	59.4	61.2	60.7	60.5
65°	702.1	386.7	111.5	73.0	62.5	55.4	52.4	55.7	58.1	58.8	58.6
67.5°	455.7	237.0	86.0	62.3	54.9	50.7	48.1	49.5	50.0	50.0	49.7
70°	224.0	127.6	68.5	52.4	47.1	45.7	44.2	43.4	42.6	41.9	41.9
72.5°	110.6	83.4	56.3	44.4	40.6	40.0	39.7	38.7	38.0	37.2	36.9
75°	81.8	67.8	47.9	37.4	35.0	34.3	35.0	34.2	34.0	33.3	33.0
77.5°	67.2	57.8	41.3	32.1	29.9	28.8	29.8	29.9	30.1	29.1	28.8
80°	54.6	48.9	34.5	26.5	24.6	23.8	24.4	25.7	26.1	24.6	24.0
82.5°	39.3	40.0	27.8	20.7	19.1	18.5	19.7	21.4	21.7	19.6	19.1
85°	33.0	33.3	21.4	14.7	13.1	12.1	14.2	15.9	17.0	14.9	14.4
87.5°	13.8	19.6	12.3	8.3	7.3	6.3	7.6	8.4	10.2	9.4	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

(END OF REPORT)