

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: P193970

Luminaire Tested: **GLEON-AF-02-LED-E1-T3-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-T3-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6549 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

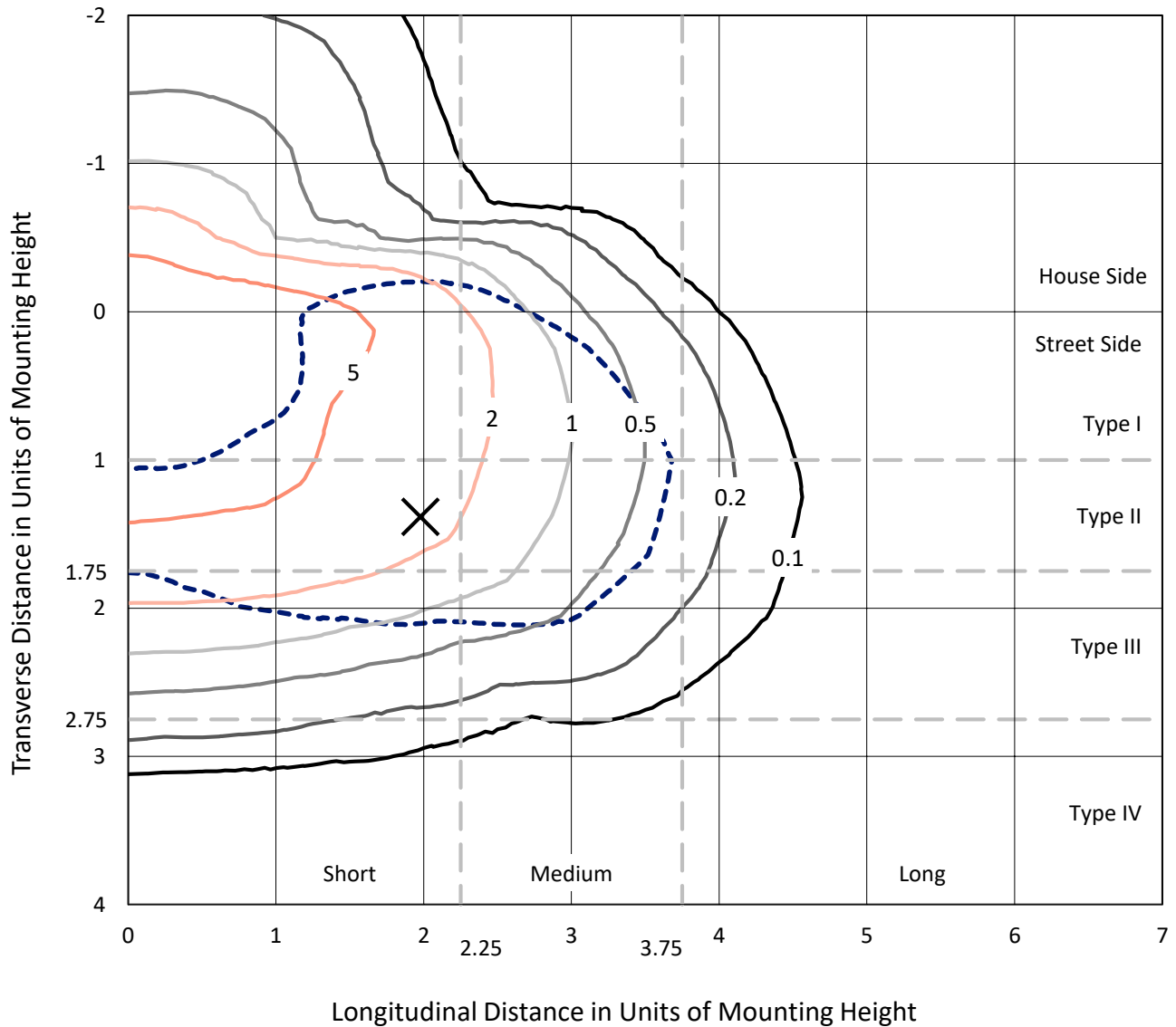
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

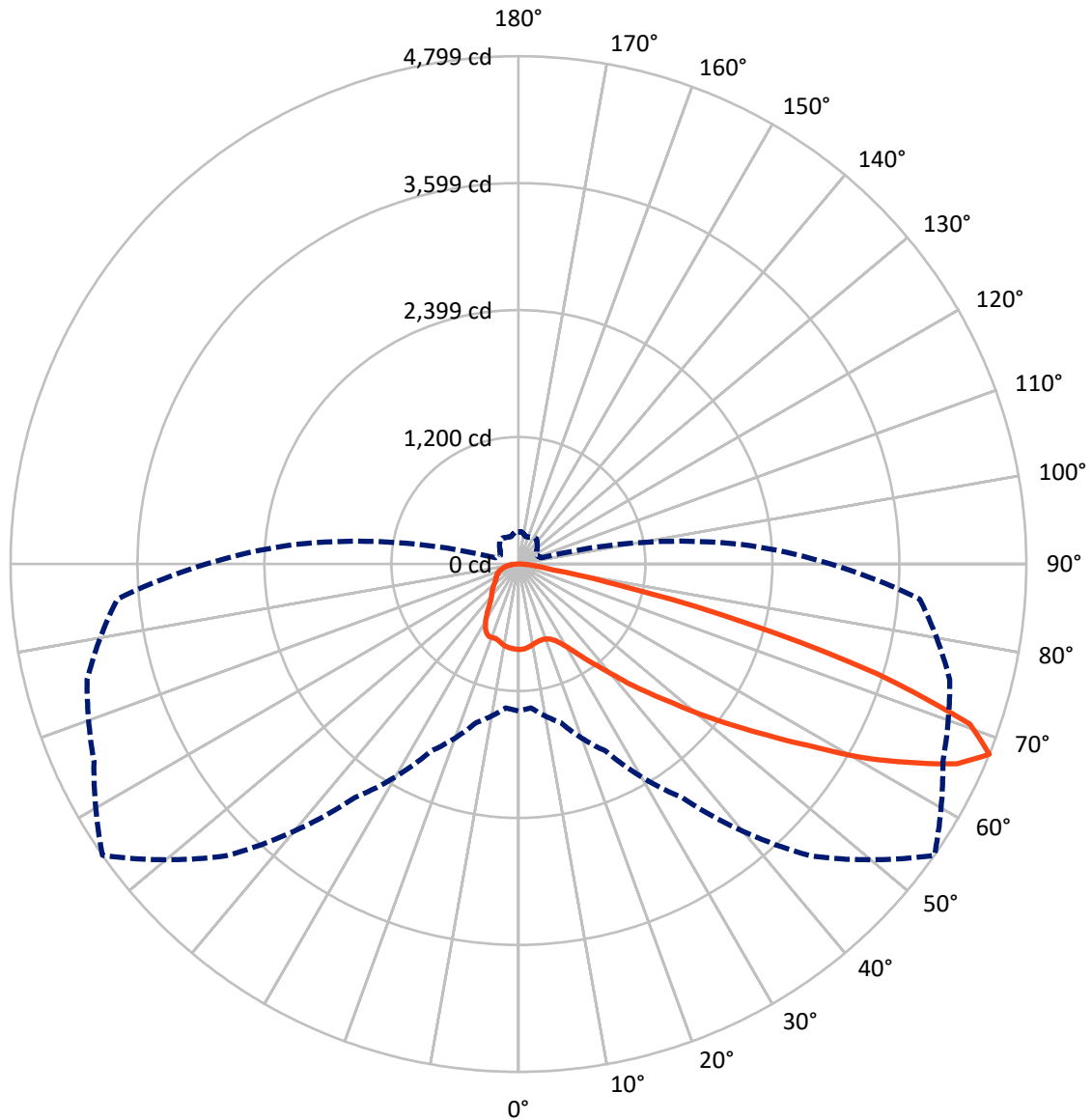
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1414.7	0.0	1414.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	5134.3	0.0	5134.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	6549.0	0.0	6549.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	1.2
10°-20°	213.5	3.3
20°-30°	357.6	5.5
30°-40°	588.1	9.0
40°-50°	989.9	15.1
50°-60°	1558.0	23.8
60°-70°	1859.3	28.4
70°-80°	798.4	12.2
80°-90°	108.9	1.7
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°	6549.0	100.0
0°-180°	6549.0	100.0



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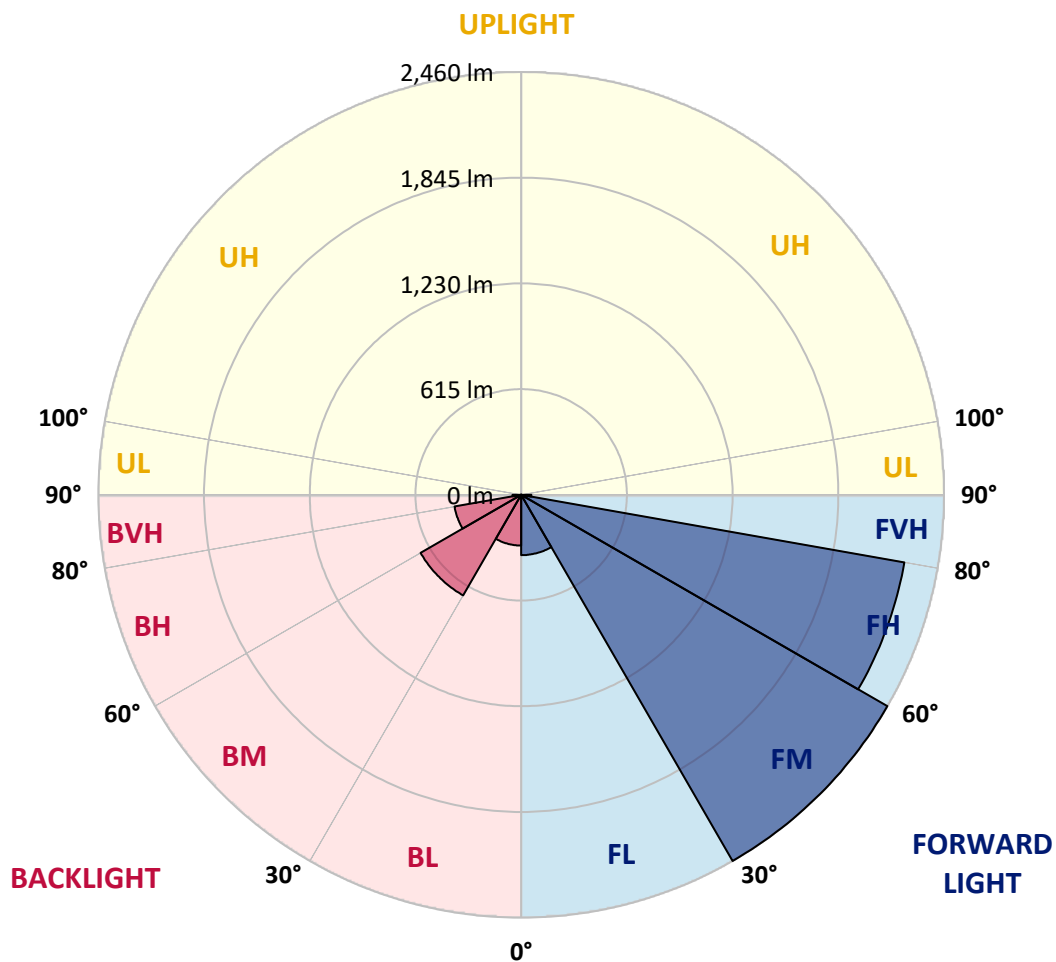
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	351.0	5.4			
FM	(30°-60°)	2460.3	37.6			
FH	(60°-80°)	2264.0	34.6			G2/5000
FVH	(80°-90°)	58.9	0.9			G1/100
BL	(0°-30°)	295.4	4.5	B1/500		
BM	(30°-60°)	675.7	10.3	B1/1000		
BH	(60°-80°)	393.7	6.0	B1/500		G1/500
BVH	(80°-90°)	49.9	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6
2.5°	800.6	800.9	801.6	804.1	806.3	805.7	806.0	804.7	804.4	802.5	804.4
5°	790.5	791.4	791.7	795.9	798.4	799.0	798.1	796.5	794.6	792.7	793.6
7.5°	767.4	769.9	770.2	775.9	780.0	785.4	785.7	786.1	785.1	783.8	785.7
10°	752.8	753.5	753.2	757.3	760.4	766.4	769.9	775.9	778.5	779.1	780.4
12.5°	751.9	751.3	750.3	750.3	749.4	751.9	758.2	766.8	772.8	774.7	776.2
15°	762.0	761.7	758.5	753.8	747.8	745.9	751.3	760.7	768.7	772.8	774.3
17.5°	784.8	782.9	777.8	767.1	754.1	749.0	749.7	757.6	766.8	772.1	773.7
20°	826.5	826.5	815.8	795.5	772.5	760.4	754.7	759.5	768.3	775.6	777.8
22.5°	898.7	899.3	881.3	848.1	809.1	783.5	769.3	768.3	778.8	787.0	789.5
25°	1000.8	998.3	973.0	925.6	866.4	824.0	799.3	793.6	802.5	811.7	814.8
27.5°	1119.8	1110.6	1080.5	1023.3	946.7	884.7	846.8	837.6	846.2	856.6	859.8
30°	1237.4	1228.0	1192.2	1129.6	1044.5	966.0	911.6	896.8	908.8	923.7	925.6
32.5°	1355.1	1355.1	1315.3	1242.2	1149.5	1063.1	998.0	980.3	1000.2	1018.2	1022.3
35°	1495.9	1496.5	1457.9	1370.0	1270.3	1178.9	1107.1	1094.1	1124.2	1136.9	1146.7
37.5°	1668.9	1672.4	1622.7	1516.4	1407.3	1311.1	1225.7	1208.0	1238.1	1272.6	1304.2
40°	1855.8	1860.3	1805.6	1674.6	1565.5	1464.9	1372.5	1340.6	1390.5	1456.3	1497.1
42.5°	2034.2	2057.0	2004.2	1869.4	1752.1	1648.0	1554.4	1507.9	1570.5	1669.8	1705.3
45°	2292.0	2308.5	2216.4	2094.4	1984.0	1867.5	1743.6	1694.5	1782.1	1907.4	1914.7
47.5°	2463.8	2451.5	2404.7	2328.7	2258.8	2150.0	1963.4	1909.6	2026.0	2173.4	2132.6
50°	2555.2	2559.0	2552.7	2557.1	2559.7	2491.3	2232.9	2159.2	2298.1	2476.1	2382.2
52.5°	2640.6	2615.3	2636.2	2740.0	2865.2	2839.9	2526.1	2449.3	2589.7	2812.1	2646.0
55°	2638.7	2600.1	2668.2	2851.3	3123.0	3152.1	2855.4	2766.8	2898.1	3172.4	2925.6
57.5°	2545.4	2547.3	2652.0	2891.8	3302.7	3445.7	3237.5	3104.7	3225.2	3537.4	3180.9
60°	2417.0	2434.4	2585.3	2885.1	3446.6	3686.4	3706.3	3468.8	3545.6	3869.2	3392.2
62.5°	2209.8	2228.2	2436.3	2816.2	3424.8	3918.2	4130.2	3881.9	3880.6	4070.4	3454.2
65°	1883.0	1877.7	2096.2	2558.4	3241.6	4089.7	4551.2	4239.0	4133.0	4073.6	3329.6
67.5°	1388.6	1364.6	1552.2	1948.5	2694.4	3897.7	4798.9	4425.0	4219.1	3805.6	2948.7
70°	720.6	696.5	848.4	1137.8	1772.0	3042.0	4524.6	4328.8	4029.0	3190.1	2310.1
72.5°	308.1	304.0	365.7	499.2	857.2	1754.6	3547.8	3746.8	3457.1	2376.8	1588.2
75°	207.2	205.9	229.0	272.0	385.6	712.0	2220.2	2659.6	2529.3	1473.7	893.3
77.5°	162.6	161.0	174.6	195.5	249.9	280.9	985.3	1427.9	1321.6	641.5	391.0
80°	127.2	125.9	134.4	145.8	179.7	177.1	324.2	568.1	439.7	245.8	190.1
82.5°	100.3	100.3	107.2	107.5	127.5	120.8	169.2	250.2	219.5	143.3	116.4
85°	91.7	91.7	99.0	80.3	83.2	76.2	105.0	148.4	139.2	58.8	50.6
87.5°	46.2	44.9	83.2	71.2	45.2	40.5	51.2	71.8	77.2	32.6	25.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6
2.5°	803.8	803.5	804.1	804.4	806.9	810.4	812.0	814.2	815.5	814.8
5°	794.3	794.9	797.4	799.3	803.8	809.5	812.6	815.2	817.4	816.4
7.5°	786.4	788.0	791.7	793.3	795.9	797.4	797.1	798.1	800.0	797.8
10°	781.9	783.8	786.7	784.5	778.5	769.9	762.0	757.9	759.2	757.6
12.5°	777.5	780.0	777.8	767.4	750.6	739.6	733.5	734.2	737.0	737.7
15°	775.0	775.9	766.4	746.8	729.7	728.2	731.3	730.7	731.0	731.0
17.5°	775.0	772.5	754.7	735.1	727.9	725.0	715.2	702.9	697.5	695.6
20°	779.1	772.5	750.9	738.0	722.2	697.8	671.9	649.1	639.0	636.1
22.5°	791.4	780.0	761.7	739.2	694.3	653.5	612.4	585.2	566.8	563.7
25°	816.4	803.8	782.9	722.5	650.0	591.8	545.0	514.7	496.3	493.8
27.5°	860.1	851.8	794.3	685.5	591.2	528.9	485.6	462.1	448.5	447.6
30°	925.9	921.8	788.6	630.7	518.8	467.8	447.0	433.4	423.2	422.9
32.5°	1030.9	997.7	769.9	564.0	452.7	424.5	416.0	407.7	399.8	399.8
35°	1166.0	1059.0	734.5	492.5	412.5	400.5	389.7	376.7	366.3	365.7
37.5°	1324.7	1097.0	670.9	434.9	393.5	384.3	368.5	349.2	330.9	327.7
40°	1485.1	1108.4	581.4	399.5	381.5	368.2	348.9	326.1	308.4	307.5
42.5°	1632.2	1086.6	486.5	375.2	369.5	351.7	331.5	311.3	297.3	297.0
45°	1755.6	1029.9	406.8	352.1	356.8	336.9	318.8	302.4	291.6	289.4
47.5°	1871.7	949.9	350.8	327.7	344.2	328.7	313.5	298.0	287.5	286.0
50°	2006.4	863.6	311.6	304.0	333.1	325.8	317.9	301.8	284.4	282.5
52.5°	2169.6	788.9	280.9	283.1	324.5	329.6	329.3	312.5	282.2	279.6
55°	2351.8	706.0	257.8	266.0	321.1	336.6	332.1	322.6	284.1	280.3
57.5°	2531.2	609.2	241.7	253.1	316.0	335.9	318.5	304.9	288.5	283.1
60°	2665.6	479.2	229.3	241.7	304.9	325.5	303.7	285.6	287.5	283.4
62.5°	2674.5	370.4	214.5	231.9	288.2	315.1	293.9	277.1	291.6	287.9
65°	2517.3	279.9	200.2	220.2	270.1	308.4	284.4	272.4	300.2	296.1
67.5°	2119.3	225.2	188.2	208.1	252.1	294.5	275.8	267.9	307.8	300.5
70°	1530.0	192.0	176.5	193.6	236.0	278.7	268.2	260.0	287.2	275.8
72.5°	942.0	166.4	163.2	174.3	223.6	262.2	256.9	245.1	258.7	249.6
75°	470.4	144.2	148.4	155.3	206.2	243.6	237.9	226.2	228.1	226.2
77.5°	225.2	123.4	131.0	136.3	183.8	222.4	216.4	204.3	202.1	202.4
80°	142.7	103.1	110.4	114.2	164.2	197.7	191.7	179.7	205.0	190.1
82.5°	89.2	83.8	85.7	92.7	143.0	172.1	164.2	153.4	184.7	146.1
85°	49.3	58.5	61.0	67.1	110.1	143.9	136.0	122.4	109.8	107.9
87.5°	29.4	34.8	35.7	40.2	74.0	104.1	92.0	87.3	72.4	72.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)