

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: P194069

Luminaire Tested: **GLEON-AF-01-LED-E1-T4FT-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5116 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

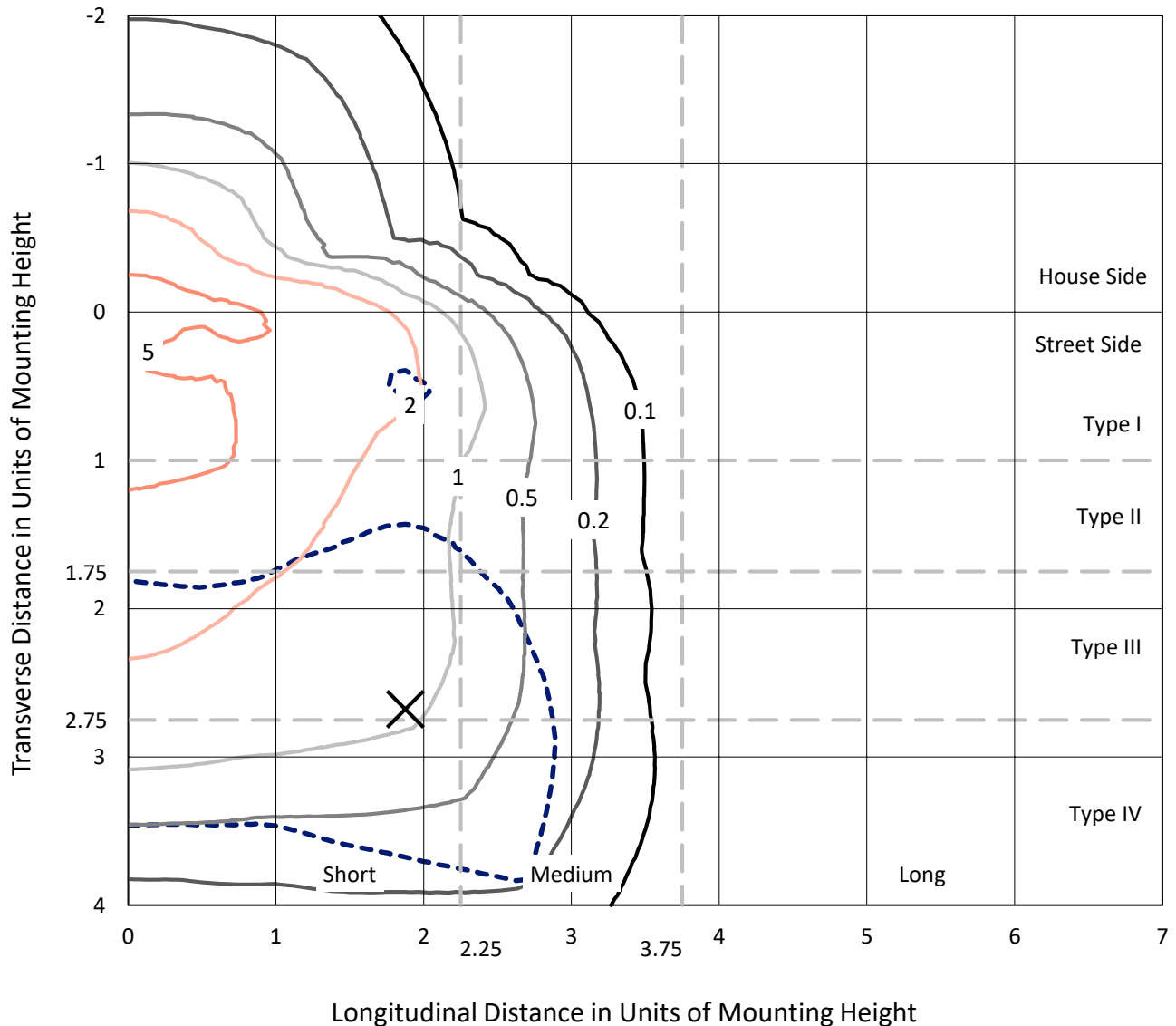
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

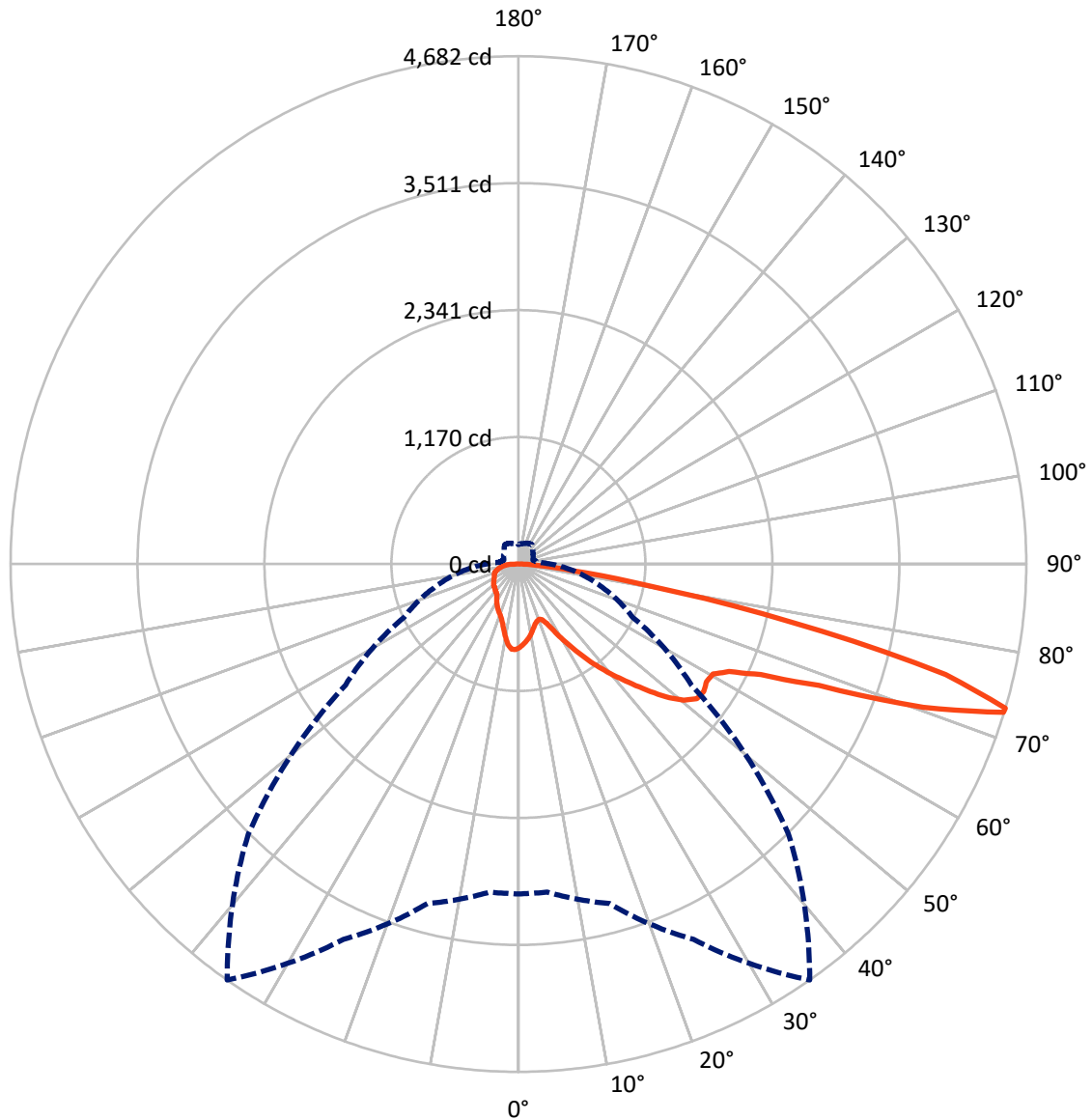
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	975.8	0.0	975.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	4140.2	0.0	4140.2
	% Fixture	80.9	0.0	80.9
Total	Lumens	5116.0	0.0	5116.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	1.4
10°-20°	174.5	3.4
20°-30°	282.1	5.5
30°-40°	473.0	9.2
40°-50°	729.0	14.3
50°-60°	978.1	19.1
60°-70°	1303.0	25.5
70°-80°	993.8	19.4
80°-90°	112.6	2.2
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°	5116.0	100.0
0°-180°	5116.0	100.0



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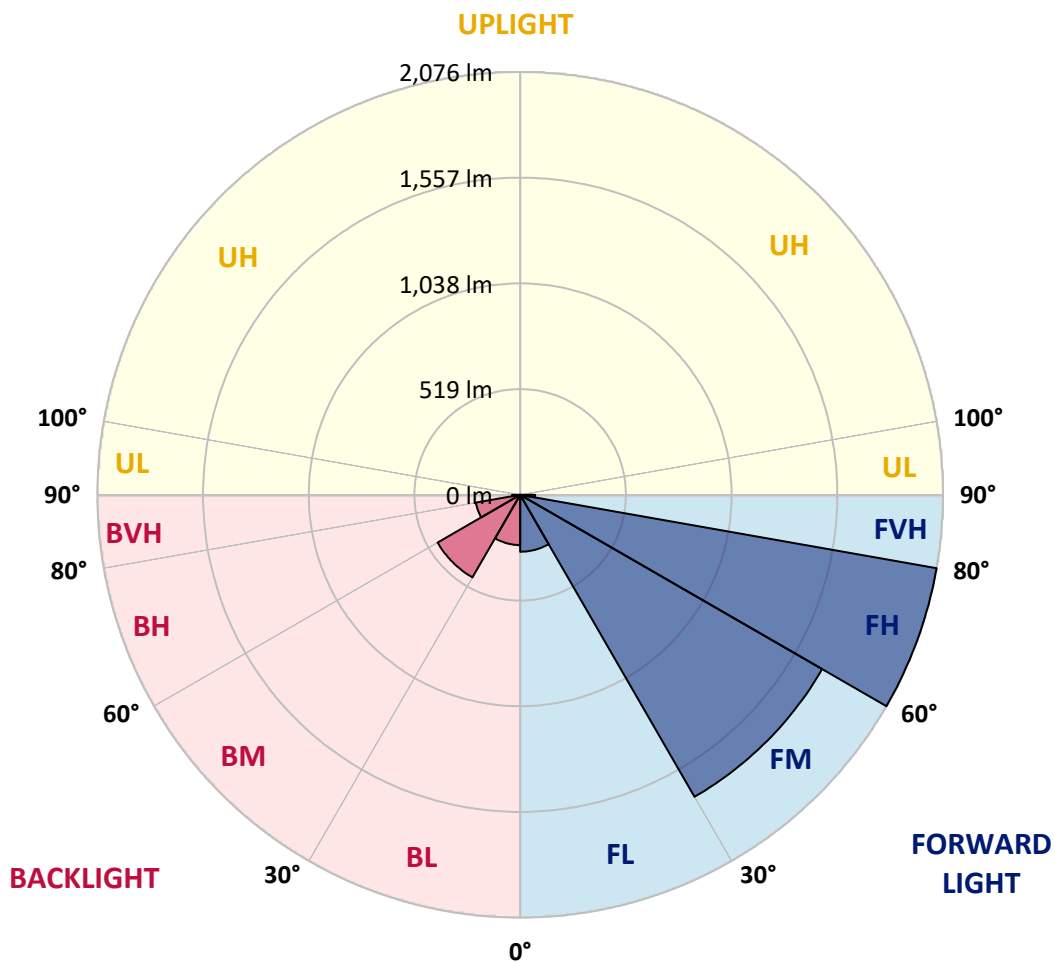
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	279.5	5.5			
FM	(30°-60°)	1711.8	33.5			
FH	(60°-80°)	2076.1	40.6			G2/5000
FVH	(80°-90°)	72.8	1.4			G1/100
BL	(0°-30°)	246.9	4.8	B1/500		
BM	(30°-60°)	468.3	9.2	B1/1000		
BH	(60°-80°)	220.8	4.3	B1/500		G1/500
BVH	(80°-90°)	39.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	772.2	772.2	772.2	772.2	772.2	772.2	772.2	772.2	772.2	772.2	772.2
2.5°	741.7	743.2	741.5	743.7	747.3	751.3	754.0	757.9	762.3	768.5	770.0
5°	706.8	709.0	709.0	713.0	720.1	726.5	732.4	738.8	748.1	758.7	762.8
7.5°	668.5	669.7	671.9	677.8	688.1	697.2	705.6	715.9	728.7	742.7	750.1
10°	622.3	624.0	627.5	635.8	649.8	662.3	674.4	688.6	704.8	722.3	731.6
12.5°	589.6	589.1	590.6	596.7	609.0	624.3	641.7	659.9	679.8	700.2	711.5
15°	578.6	575.9	570.2	568.7	575.4	590.6	610.8	633.1	656.9	681.5	695.5
17.5°	585.4	580.8	565.3	554.0	553.0	564.6	585.9	611.0	638.5	668.5	685.9
20°	628.7	617.6	579.6	553.3	544.2	549.8	568.5	595.0	627.5	667.3	689.6
22.5°	732.1	715.9	635.1	586.2	555.5	548.6	562.6	590.9	628.7	682.5	711.0
25°	882.7	859.6	730.4	668.2	604.9	568.3	571.4	600.4	646.1	717.9	752.3
27.5°	1001.6	986.6	855.0	784.0	694.8	621.3	600.2	624.5	681.8	775.8	811.0
30°	1072.4	1063.3	988.1	915.1	809.5	705.8	655.2	669.7	737.5	856.2	885.2
32.5°	1154.4	1149.0	1112.2	1045.1	933.3	816.9	742.4	737.3	812.2	952.7	966.0
35°	1239.4	1237.7	1216.1	1167.9	1066.2	963.3	858.2	823.3	893.5	1053.0	1044.6
37.5°	1318.5	1315.6	1303.1	1275.1	1205.3	1120.5	976.1	911.5	981.2	1148.8	1111.7
40°	1464.2	1441.1	1398.1	1377.0	1345.8	1253.0	1069.7	993.8	1072.1	1240.2	1169.7
42.5°	1641.9	1604.3	1524.2	1495.2	1490.8	1357.4	1133.6	1073.6	1163.8	1330.8	1226.7
45°	1781.7	1746.3	1677.2	1640.6	1656.8	1452.0	1197.7	1158.9	1258.1	1425.9	1285.4
47.5°	1930.8	1875.3	1783.9	1794.9	1830.3	1541.4	1263.0	1250.5	1361.5	1532.3	1358.3
50°	1936.2	1893.7	1853.6	1919.7	1974.8	1623.7	1344.8	1346.6	1488.1	1666.2	1455.4
52.5°	1823.9	1814.8	1878.4	1982.4	2061.7	1688.8	1437.9	1445.8	1650.0	1820.0	1562.0
55°	1784.6	1774.3	1847.7	1960.5	2073.5	1742.6	1538.9	1553.2	1845.8	1982.1	1665.9
57.5°	1880.4	1857.6	1862.5	1950.2	2044.8	1801.6	1649.0	1677.7	2058.5	2123.9	1732.8
60°	2148.2	2099.3	2006.4	2004.2	2060.2	1890.0	1776.2	1811.4	2279.6	2191.7	1706.7
62.5°	2523.8	2475.0	2301.0	2187.8	2179.4	2035.9	1932.5	1941.8	2407.4	2099.8	1547.8
65°	2930.4	2886.7	2692.4	2532.4	2455.3	2277.7	2114.1	2000.1	2365.6	1847.0	1269.7
67.5°	3424.0	3377.1	3210.0	3062.4	2988.2	2667.8	2241.6	1944.3	2100.5	1430.8	912.7
70°	3769.2	3721.3	3655.4	3775.1	3956.6	3230.7	2258.0	1717.5	1568.9	951.0	549.3
72.5°	3318.9	3296.5	3416.6	3920.5	4676.7	3572.1	2041.1	1250.5	911.2	504.9	317.9
73°	3040.7	3035.8	3240.7	3818.6	4681.9	3519.6	1946.0	1162.3	781.5	446.6	290.6
75°	1373.1	1412.6	1861.7	2916.7	4067.7	2900.2	1369.7	666.8	441.5	308.6	219.4
77.5°	329.9	343.7	582.5	1385.1	2568.8	1728.3	620.6	329.7	282.3	217.9	160.2
80°	140.5	145.2	224.3	511.7	1209.5	696.0	286.0	220.9	195.3	152.1	112.3
82.5°	78.1	83.0	127.3	232.2	488.2	237.3	174.4	153.8	128.5	91.6	73.0
85°	44.2	46.9	74.4	129.7	206.9	95.3	104.4	102.2	72.5	47.2	35.9
87.5°	20.9	22.6	35.9	60.2	81.1	37.3	53.1	58.5	45.5	28.7	18.7
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°	772.2	772.2	772.2	772.2	772.2	772.2	772.2	772.2	772.2	772.2
2.5°	771.7	776.1	781.3	784.0	786.4	789.4	792.3	792.3	792.8	793.0
5°	766.3	775.4	783.5	786.9	787.6	787.6	786.9	783.0	779.5	781.0
7.5°	755.0	768.2	775.1	773.9	764.5	753.7	744.6	733.6	727.9	727.0
10°	738.8	754.0	755.2	742.9	719.8	696.7	677.6	658.9	650.1	647.9
12.5°	720.8	734.8	727.0	701.7	664.6	630.9	606.6	587.7	579.3	577.1
15°	706.3	715.9	696.0	656.2	609.5	573.9	553.8	539.8	533.9	532.1
17.5°	698.7	700.7	664.3	610.5	560.9	531.2	518.6	512.0	509.8	508.6
20°	702.4	688.6	634.1	568.0	521.1	500.2	497.3	495.5	495.0	494.3
22.5°	720.8	684.9	606.3	527.7	486.2	477.1	479.6	479.3	478.8	478.3
25°	753.7	688.1	579.3	489.4	457.0	455.0	459.4	459.4	457.5	457.5
27.5°	797.2	694.8	549.1	453.0	430.4	430.7	434.1	433.1	430.9	429.4
30°	850.3	699.0	513.7	420.4	405.6	404.6	405.6	401.4	394.8	394.3
32.5°	904.6	693.8	472.7	391.4	379.3	377.1	376.4	370.5	362.9	360.7
35°	953.7	674.9	430.9	368.3	354.3	349.4	352.8	350.8	343.9	342.2
37.5°	989.6	639.7	393.3	347.9	336.3	335.1	337.3	338.1	329.9	328.2
40°	1013.7	592.1	361.1	330.7	332.9	328.2	320.9	315.7	313.2	312.5
42.5°	1033.1	542.5	334.1	322.6	333.6	320.1	304.1	295.8	300.2	302.2
45°	1055.4	494.1	311.5	312.5	329.9	310.8	292.6	284.5	286.2	286.7
47.5°	1086.1	435.1	287.2	296.3	317.7	304.4	285.5	273.9	265.8	262.1
50°	1128.6	365.3	261.9	278.1	305.6	299.7	274.4	262.1	247.2	243.7
52.5°	1158.1	300.2	241.0	262.9	294.8	290.4	265.6	249.6	233.9	230.9
55°	1142.2	249.4	222.8	245.9	280.6	278.8	258.2	236.8	224.5	222.1
57.5°	1062.3	217.2	208.8	230.0	263.1	269.0	248.4	226.0	217.2	215.5
60°	910.0	197.0	200.0	219.1	248.9	259.2	238.6	220.1	214.2	213.0
62.5°	706.1	183.5	193.3	211.3	237.8	252.3	233.1	219.4	217.2	215.7
65°	505.8	172.7	186.2	203.4	227.7	245.9	231.2	218.4	218.9	217.7
67.5°	343.7	163.1	177.6	194.6	217.9	240.3	228.5	215.0	221.1	219.6
70°	240.5	153.8	167.6	183.3	205.6	232.4	223.6	209.8	209.3	203.4
72.5°	187.7	141.5	153.8	167.6	189.9	221.4	213.7	198.3	190.2	184.0
73°	179.1	138.6	150.4	164.1	186.5	218.7	211.0	195.1	186.0	180.3
75°	148.1	125.8	136.6	148.9	171.7	205.9	197.8	180.6	169.0	165.6
77.5°	116.5	107.6	117.9	129.0	151.3	187.2	178.1	161.7	155.3	152.3
80°	86.2	89.2	98.3	108.1	131.2	167.3	159.2	142.7	171.2	164.1
82.5°	60.7	67.6	75.9	84.8	110.1	147.9	138.1	121.1	125.3	104.2
85°	35.9	44.2	52.1	59.7	79.4	122.6	114.0	96.6	79.1	75.4
87.5°	20.9	24.6	26.8	34.6	54.5	92.4	80.3	71.5	41.0	27.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)