

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: P193309

Luminaire Tested: **GLEON-AF-01-LED-E1-T4W-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5986.3 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-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

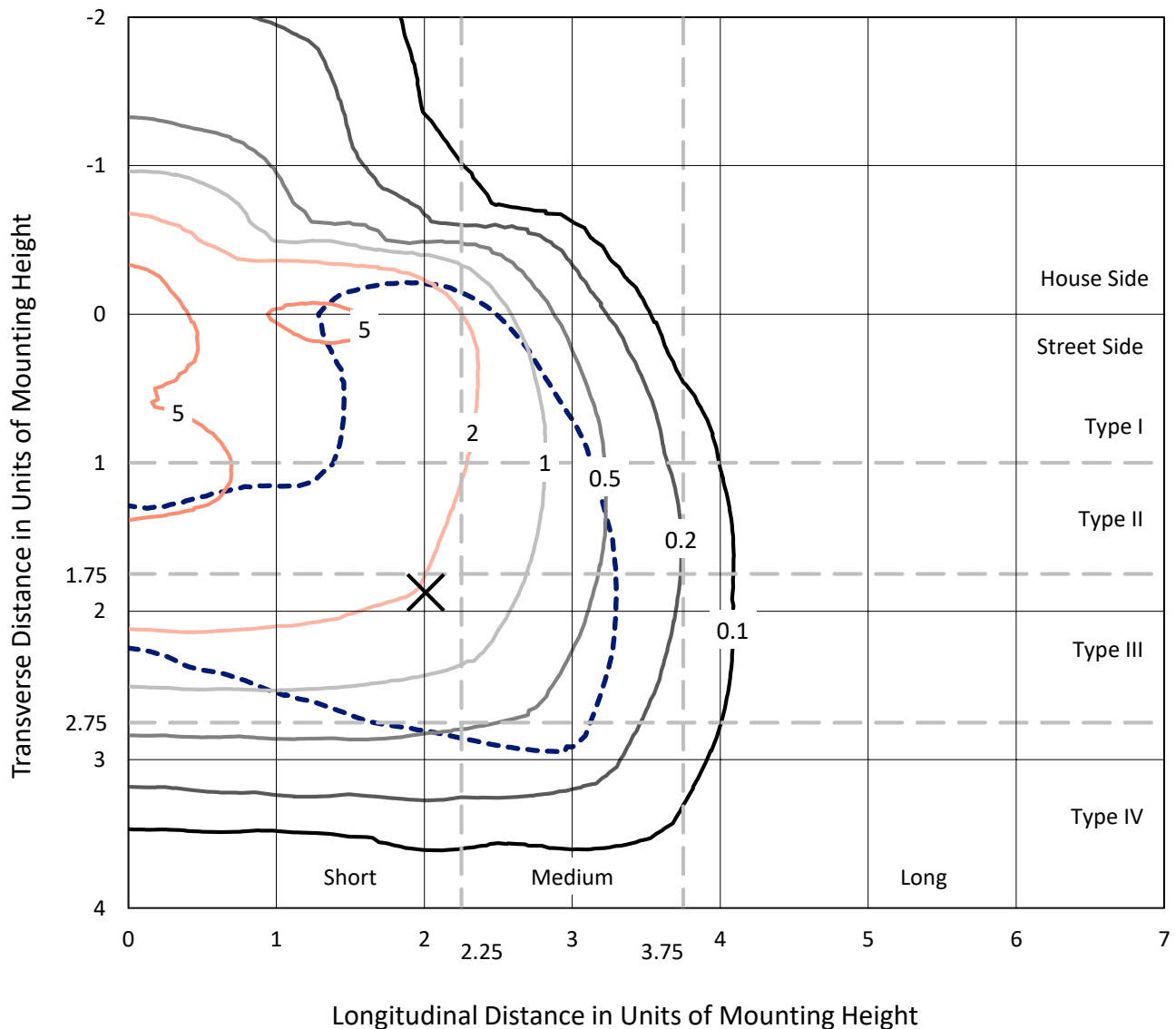


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

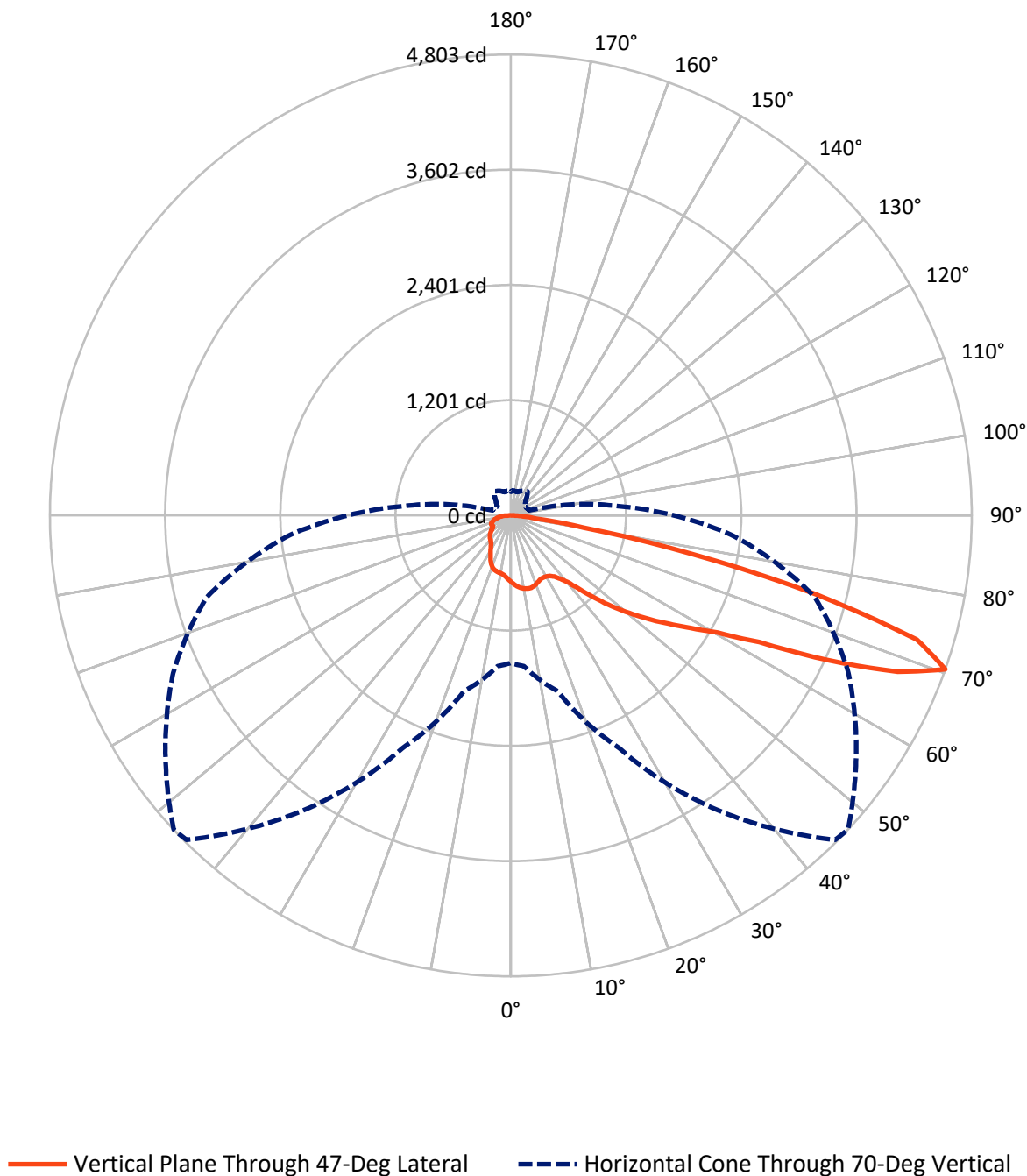


Based on 10 foot mounting height. Maximum calculated value = 8 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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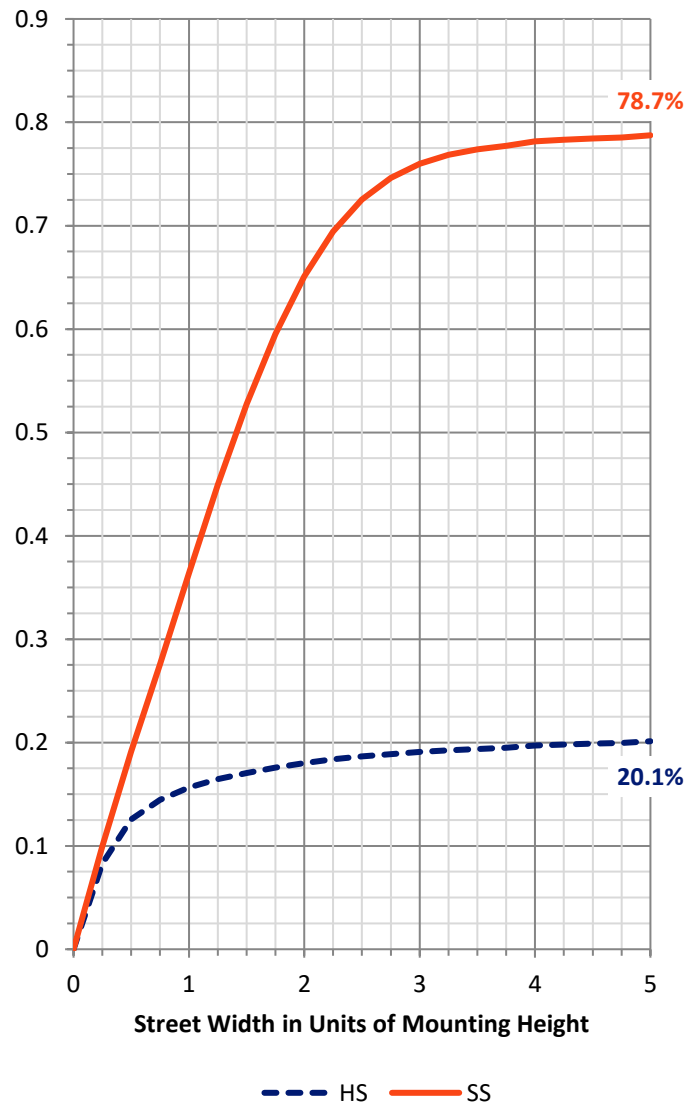
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1248.9	0.0	1248.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	4737.4	0.0	4737.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	5986.3	0.0	5986.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	1.1
10°-20°	195.3	3.3
20°-30°	288.3	4.8
30°-40°	419.1	7.0
40°-50°	754.2	12.6
50°-60°	1306.6	21.8
60°-70°	1864.9	31.2
70°-80°	957.3	16.0
80°-90°	134.0	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°	5986.3	100.0
0°-180°	5986.3	100.0

Coefficient of Utilization



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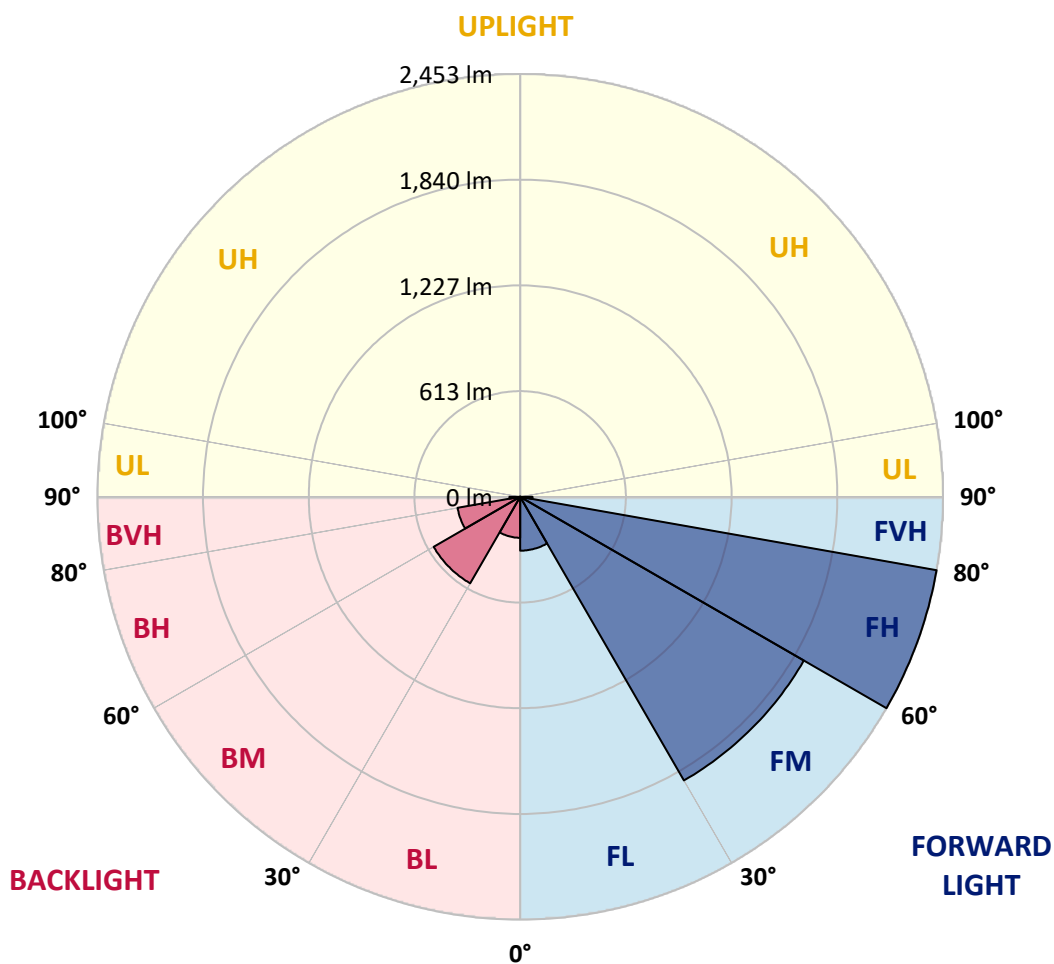
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	312.4	5.2			
FM	(30°-60°)	1900.2	31.7			
FH	(60°-80°)	2453.4	41.0			G2/5000
FVH	(80°-90°)	71.5	1.2			G1/100
BL	(0°-30°)	237.8	4.0	B1/500		
BM	(30°-60°)	579.7	9.7	B1/1000		
BH	(60°-80°)	368.9	6.2	B1/500		G1/500
BVH	(80°-90°)	62.5	1.0			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°	47°	55°	65°	75°	85°
0°	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6
2.5°	735.5	733.9	733.3	732.1	730.7	723.4	721.9	716.7	709.4	701.9	694.1
5°	783.7	783.4	780.2	774.4	765.1	749.1	745.2	732.5	715.3	698.7	682.1
7.5°	826.2	823.6	817.5	805.9	789.5	767.6	762.4	744.7	721.1	698.3	676.0
10°	857.3	855.9	842.5	826.5	805.2	781.1	774.9	755.2	729.3	700.5	672.5
12.5°	875.1	872.2	856.8	837.6	812.3	788.7	782.6	762.4	733.3	700.5	667.5
15°	874.0	872.0	856.5	835.5	809.9	789.3	783.7	763.6	732.5	697.5	661.1
17.5°	850.7	851.5	838.4	817.8	796.8	781.1	776.2	757.5	726.7	691.7	653.6
20°	809.9	814.0	805.2	786.8	775.3	764.5	761.3	745.5	717.7	683.2	645.4
22.5°	769.1	772.9	769.4	754.0	752.2	745.8	744.0	732.8	709.7	678.0	640.5
25°	739.1	742.6	742.1	728.6	733.9	733.6	732.1	726.7	708.0	678.0	641.4
27.5°	731.1	732.1	731.1	718.8	726.0	731.9	730.7	729.9	713.3	686.4	652.4
30°	759.0	757.1	748.2	723.4	730.2	738.3	737.2	737.7	729.0	708.5	677.1
32.5°	870.5	862.6	834.0	764.5	746.7	751.0	751.7	761.3	762.7	742.6	715.5
35°	1037.4	1028.6	991.6	874.6	798.2	783.2	783.2	797.7	806.5	791.6	775.3
37.5°	1214.2	1204.6	1184.7	1027.1	906.7	838.8	837.3	847.6	860.0	863.4	867.6
40°	1415.1	1405.0	1410.4	1198.5	1057.7	935.1	914.5	907.2	940.9	963.4	996.0
42.5°	1634.9	1630.3	1632.4	1389.2	1229.9	1079.4	1049.9	1012.3	1053.1	1093.0	1161.4
45°	1838.7	1842.6	1840.6	1593.3	1421.6	1255.3	1224.0	1151.3	1191.2	1259.6	1371.1
47.5°	2016.8	1999.9	2026.1	1816.4	1636.1	1452.0	1413.7	1316.1	1356.6	1441.0	1629.7
50°	2233.2	2230.8	2192.4	2114.0	1895.6	1649.9	1599.4	1486.5	1549.4	1666.7	1955.6
52.5°	2460.6	2418.5	2383.2	2345.6	2170.9	1852.6	1790.8	1656.3	1776.0	1923.6	2352.9
55°	2507.3	2488.3	2532.0	2595.2	2436.2	2063.2	1991.1	1869.2	2031.1	2217.2	2811.0
57.5°	2606.8	2606.6	2696.8	2809.6	2709.4	2286.5	2214.0	2126.3	2317.9	2553.6	3297.3
60°	2674.1	2693.0	2860.9	3079.6	2977.7	2544.5	2477.9	2423.1	2644.2	2929.6	3750.6
62.5°	2709.4	2735.0	2963.8	3189.1	3356.8	2974.1	2907.4	2828.5	3075.7	3341.9	4015.6
65°	2562.9	2613.3	2948.0	3283.7	3688.8	3670.4	3640.4	3501.9	3615.4	3667.9	3919.7
67.5°	2157.5	2209.0	2598.7	3195.4	3925.9	4342.1	4348.4	4111.7	3947.4	3695.8	3295.6
70°	1537.2	1577.6	1900.0	2679.0	3745.3	4780.9	4802.8	4392.8	3881.3	3277.6	2302.5
72.5°	729.9	754.6	1059.9	1743.7	2972.1	4380.5	4422.7	4034.0	3300.2	2426.5	1256.2
75°	268.2	275.8	358.3	741.8	1723.8	3230.4	3280.2	2891.6	2187.8	1208.1	478.5
77.5°	160.7	165.7	200.9	313.0	678.0	1846.5	1920.1	1572.7	956.1	449.7	235.4
80°	112.4	116.0	144.1	194.8	320.3	703.6	769.1	641.9	381.0	284.5	171.2
82.5°	76.1	77.8	101.4	131.6	212.9	251.3	271.2	285.3	256.9	211.8	108.6
85°	49.8	51.6	68.8	86.8	135.4	129.9	132.8	168.0	187.6	143.9	60.3
87.5°	28.5	29.7	41.4	46.3	66.4	55.0	55.6	88.5	119.9	97.0	36.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6
2.5°	691.9	688.3	679.7	674.4	669.5	668.3	666.4	666.1	665.7	665.7	664.9
5°	676.6	670.1	656.9	649.8	643.6	643.1	642.8	644.2	644.8	645.4	644.5
7.5°	666.6	657.8	641.6	631.1	623.9	622.1	625.0	631.7	636.1	637.8	637.0
10°	660.5	649.8	630.9	619.5	613.4	612.5	616.2	624.1	633.1	636.7	636.3
12.5°	653.6	641.4	621.2	609.2	605.8	607.5	612.5	619.7	629.2	634.6	634.9
15°	646.6	632.3	611.7	601.2	599.7	602.0	606.6	612.2	619.5	625.0	625.6
17.5°	638.1	623.3	602.6	591.7	590.6	591.7	592.0	595.0	599.7	604.9	606.4
20°	629.2	613.9	592.4	581.6	576.4	571.7	566.5	567.0	568.4	573.7	574.9
22.5°	622.7	607.5	584.5	569.7	555.7	541.7	531.2	529.8	530.4	534.8	536.1
25°	623.3	607.3	582.5	556.9	526.3	503.8	489.8	487.6	487.2	490.5	492.4
27.5°	634.6	618.6	590.0	543.8	494.2	461.1	446.3	444.4	442.1	442.9	445.3
30°	659.9	645.0	608.3	530.4	459.6	419.1	403.6	401.8	398.7	397.2	399.1
32.5°	701.3	689.1	635.3	517.6	424.9	383.3	367.5	363.8	361.7	360.0	361.4
35°	770.1	764.9	671.0	503.5	394.3	355.6	341.3	335.5	332.5	335.8	338.1
37.5°	877.8	880.7	718.0	481.8	370.7	337.3	325.3	318.6	314.2	316.9	319.5
40°	1030.5	1032.4	769.7	450.8	350.4	326.4	313.7	307.6	301.4	296.7	296.5
42.5°	1230.8	1210.0	820.7	417.4	326.8	319.8	305.5	297.9	288.7	275.8	273.1
45°	1468.5	1395.9	859.5	378.9	300.3	311.6	296.5	286.0	271.4	257.5	256.0
47.5°	1742.1	1595.4	878.3	339.0	275.6	299.7	285.3	268.8	250.4	243.4	242.5
50°	2076.5	1832.2	887.4	300.3	253.9	284.0	269.5	249.8	234.5	232.9	232.0
52.5°	2457.1	2117.0	890.4	268.6	236.2	263.6	256.3	237.3	225.1	226.2	226.2
55°	2855.6	2411.2	850.7	245.5	219.8	242.5	247.6	232.4	222.3	226.8	228.6
57.5°	3221.4	2671.8	726.0	227.7	204.5	226.6	244.3	237.1	230.1	249.0	250.2
60°	3502.1	2825.9	542.3	211.8	193.1	221.0	252.8	254.8	256.5	301.8	307.8
62.5°	3561.0	2774.6	372.8	199.2	187.8	225.7	268.2	268.6	266.5	297.9	301.8
65°	3291.0	2450.4	271.2	192.2	183.4	234.2	281.4	275.3	261.7	285.7	278.7
67.5°	2613.6	1846.2	225.7	187.0	177.1	233.6	295.3	281.4	259.2	279.9	268.6
70°	1696.5	1116.3	200.9	182.6	169.5	222.5	303.5	280.8	251.7	260.4	246.9
72.5°	827.7	499.2	184.3	176.2	161.6	207.0	303.2	275.6	243.7	243.2	235.9
75°	323.9	228.6	169.3	166.6	148.3	189.6	295.0	267.9	234.5	225.1	222.5
77.5°	189.6	163.2	150.0	152.3	132.2	172.1	283.1	254.8	221.6	210.6	207.7
80°	138.0	122.1	127.9	131.6	113.0	154.6	267.0	238.8	207.4	212.9	208.8
82.5°	88.5	78.6	103.7	107.5	94.1	136.9	249.5	221.9	187.3	170.1	166.0
85°	45.2	49.8	77.1	81.8	72.5	112.4	228.4	199.5	164.6	141.5	143.9
87.5°	25.3	34.1	49.1	55.0	51.3	86.6	185.2	164.6	134.3	109.3	96.1
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)