

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: P269040

Luminaire Tested: **GLEON-AF-01-LED-E1-T4W-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269040
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5898.7 lumens
Efficiency: N/A
Efficacy: 88.0 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): 67
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

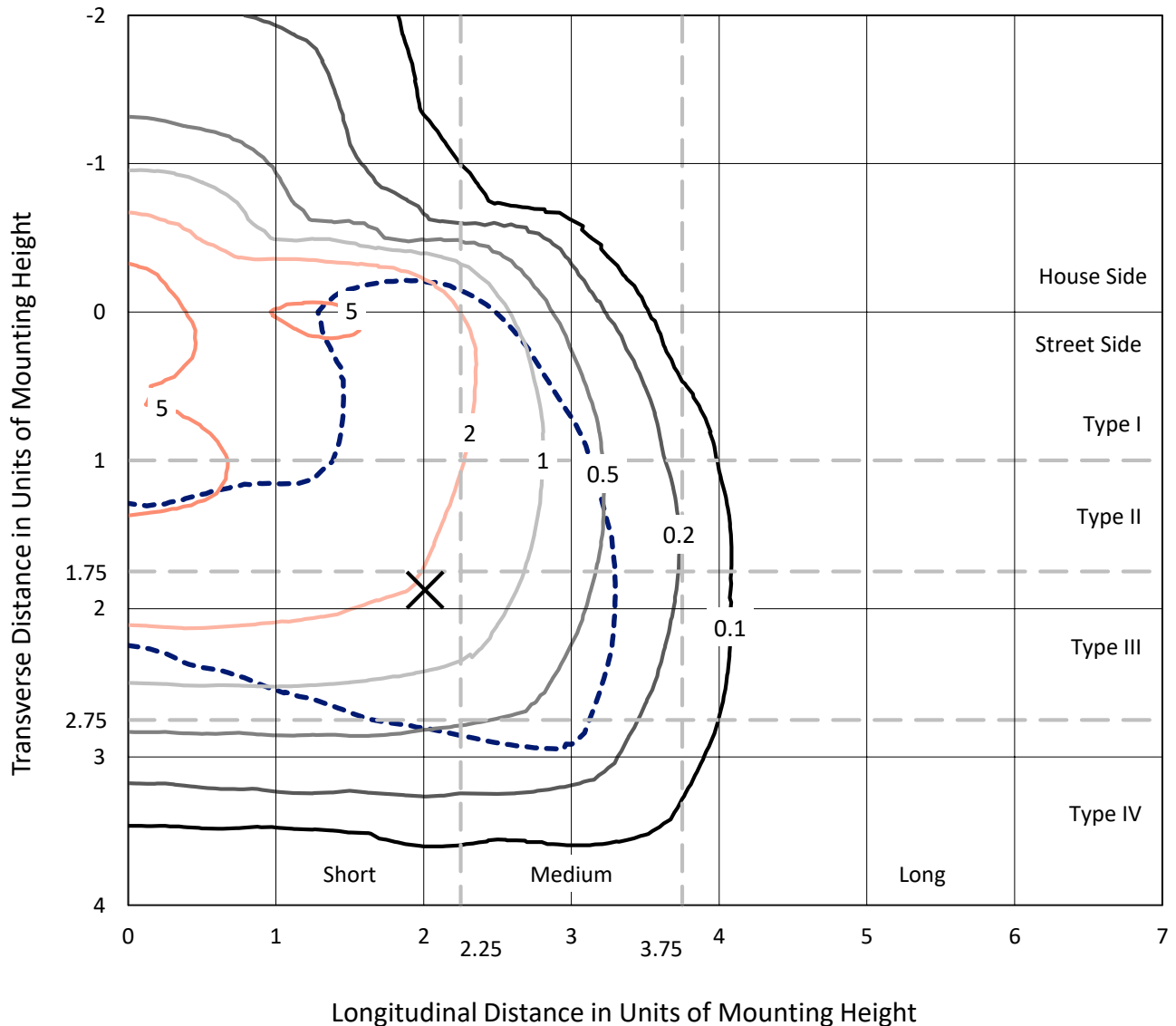


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Iso-Footcandle Lines of Horizontal Illumination

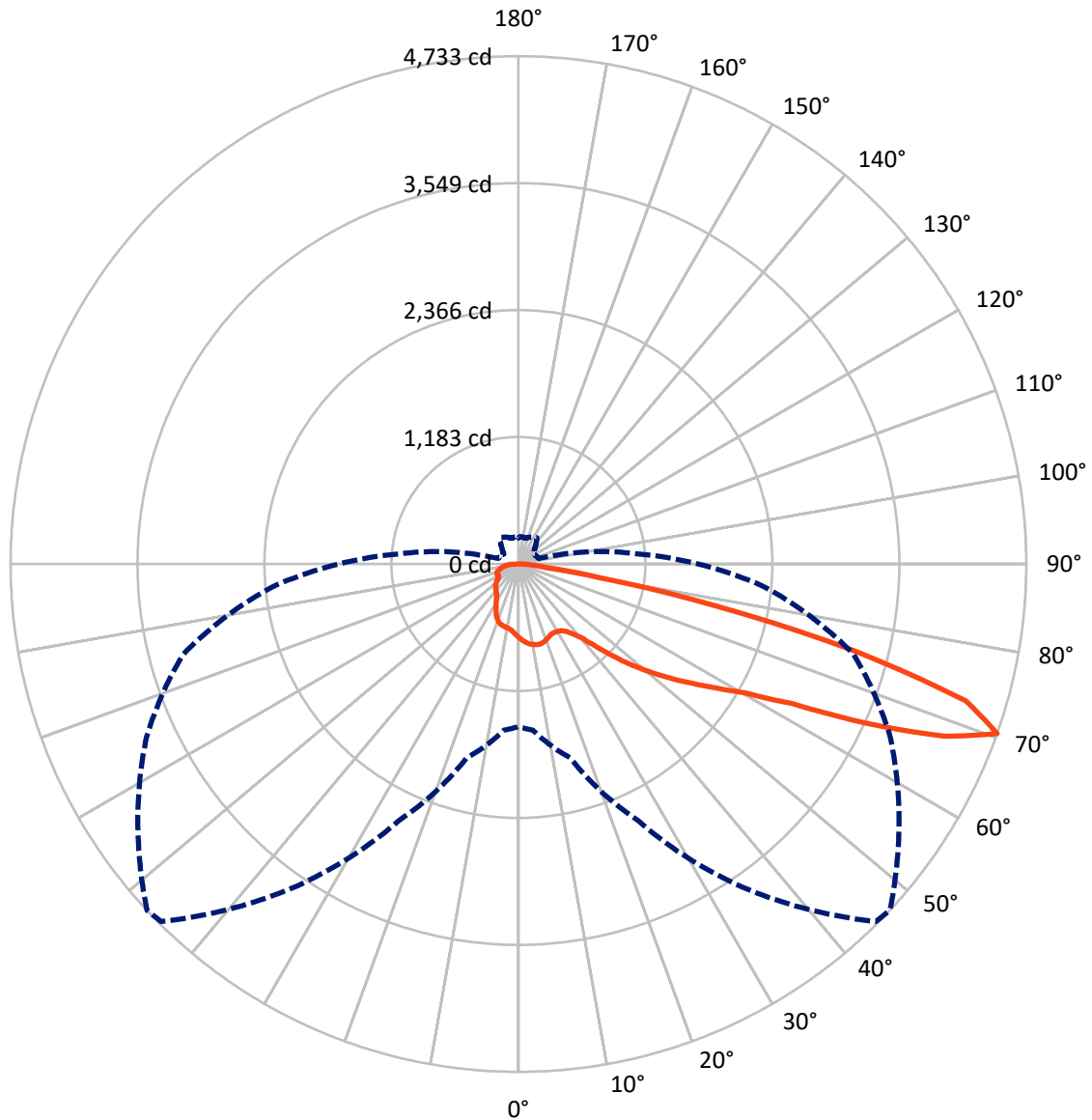
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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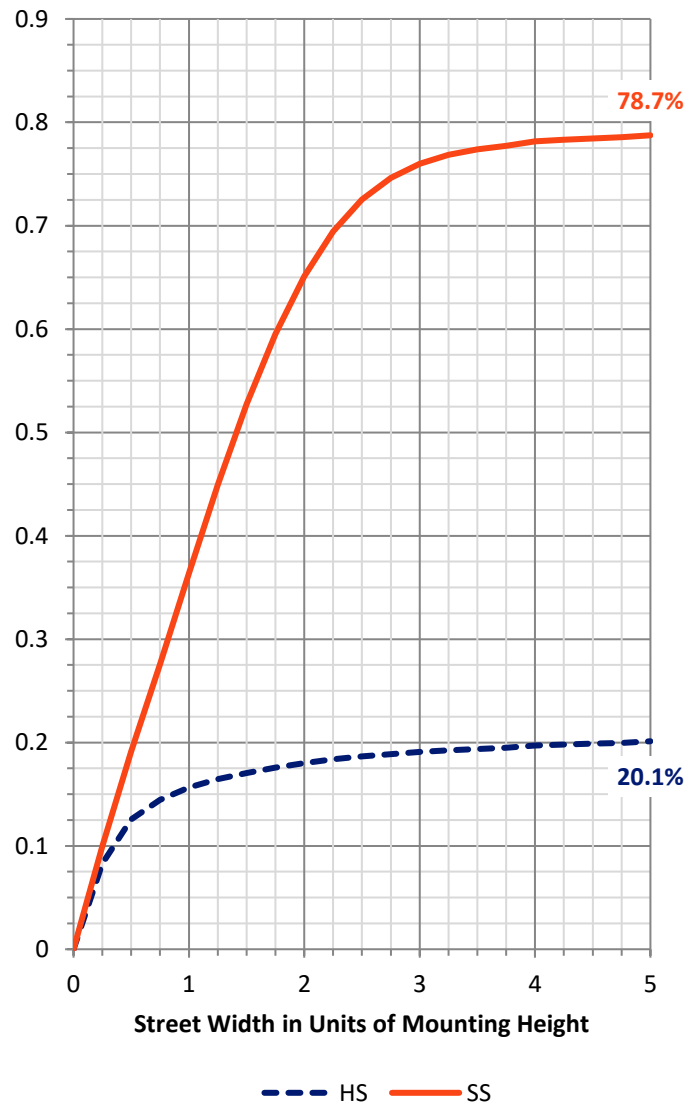
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1230.6	0.0	1230.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	4668.1	0.0	4668.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	5898.7	0.0	5898.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	1.1
10°-20°	192.4	3.3
20°-30°	284.1	4.8
30°-40°	413.0	7.0
40°-50°	743.2	12.6
50°-60°	1287.5	21.8
60°-70°	1837.6	31.2
70°-80°	943.3	16.0
80°-90°	132.1	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°	5898.7	100.0
0°-180°	5898.7	100.0



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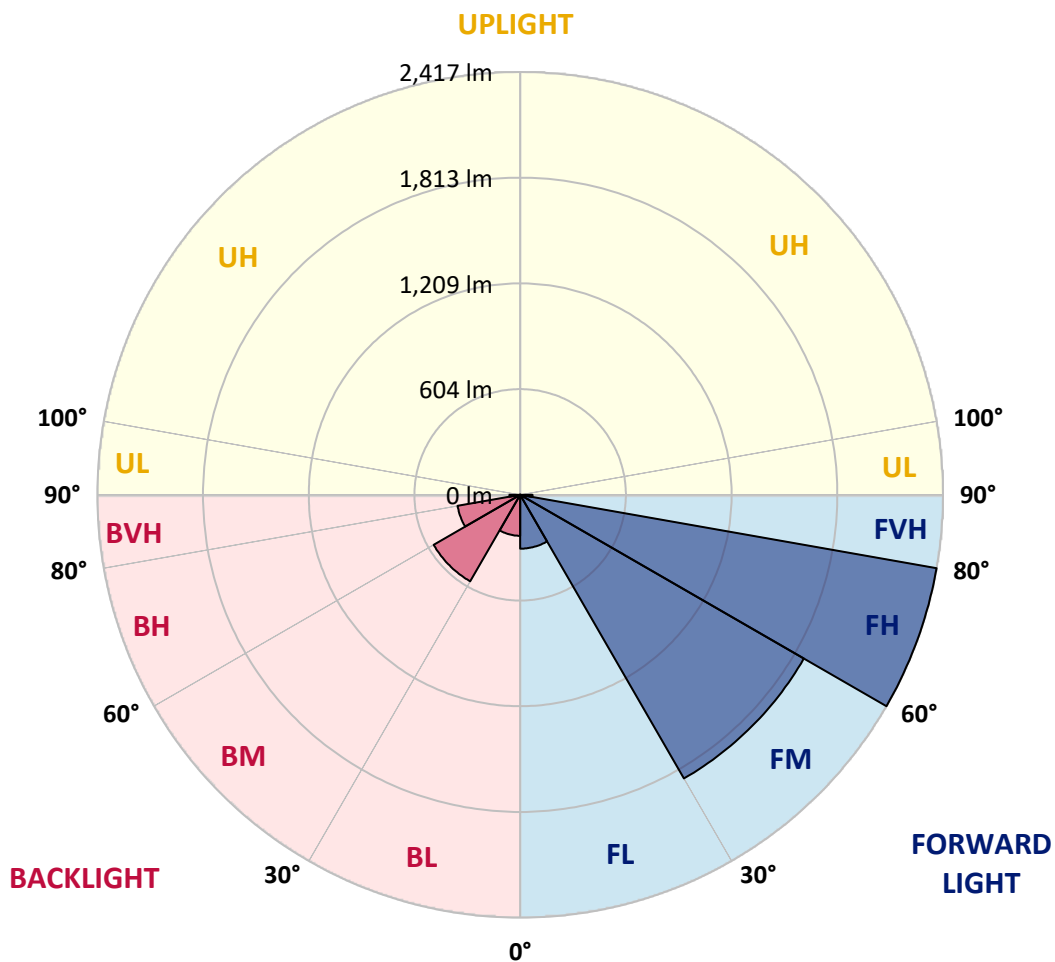
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	307.8	5.2			
FM	(30°-60°)	1872.4	31.7			
FH	(60°-80°)	2417.4	41.0			G2/5000
FVH	(80°-90°)	70.5	1.2			G1/100
BL	(0°-30°)	234.3	4.0	B1/500		
BM	(30°-60°)	571.2	9.7	B1/1000		
BH	(60°-80°)	363.5	6.2	B1/500		G1/500
BVH	(80°-90°)	61.6	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°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4
2.5°	724.7	723.1	722.5	721.5	720.0	712.9	711.4	706.2	699.2	691.6	683.9
5°	772.3	772.0	768.8	763.1	753.9	738.0	734.4	721.8	704.8	688.5	672.1
7.5°	814.1	811.6	805.5	794.0	778.0	756.5	751.3	733.7	710.6	688.1	666.1
10°	844.9	843.4	830.3	814.5	793.6	769.7	763.6	744.2	718.6	690.2	662.6
12.5°	862.4	859.5	844.2	825.4	800.4	777.2	771.0	751.3	722.5	690.2	657.7
15°	861.2	859.1	844.0	823.3	798.1	777.8	772.3	752.4	721.8	687.4	651.5
17.5°	838.3	839.0	826.3	805.8	785.2	769.7	764.7	746.4	715.9	681.5	643.9
20°	798.1	802.0	793.6	775.3	763.9	753.3	750.2	734.6	707.1	673.2	635.9
22.5°	757.9	761.7	758.2	743.0	741.2	735.0	733.2	722.1	699.4	668.1	631.1
25°	728.3	731.8	731.2	718.0	723.1	722.9	721.5	715.9	697.7	668.1	631.9
27.5°	720.4	721.5	720.4	708.3	715.4	721.2	720.0	719.2	702.8	676.5	642.8
30°	747.8	746.1	737.1	712.9	719.5	727.4	726.3	726.9	718.3	698.3	667.3
32.5°	857.7	850.1	821.9	753.3	735.8	740.2	740.7	750.2	751.6	731.8	705.1
35°	1022.2	1013.6	977.1	861.7	786.6	771.6	771.6	786.0	794.6	780.0	763.9
37.5°	1196.5	1186.9	1167.3	1012.2	893.4	826.5	825.1	835.2	847.5	850.9	854.8
40°	1394.3	1384.4	1389.8	1180.9	1042.4	921.5	901.1	894.0	927.2	949.2	981.5
42.5°	1611.1	1606.4	1608.4	1368.8	1212.0	1063.6	1034.6	997.5	1037.7	1077.0	1144.4
45°	1811.6	1815.7	1813.7	1570.1	1400.6	1236.8	1206.2	1134.4	1173.7	1241.2	1351.1
47.5°	1987.3	1970.6	1996.5	1789.9	1612.2	1430.9	1393.0	1296.9	1336.7	1420.0	1605.9
50°	2200.5	2198.2	2160.3	2083.1	1867.9	1625.8	1576.0	1464.7	1526.7	1642.3	1927.0
52.5°	2424.6	2383.1	2348.3	2311.2	2139.1	1825.4	1764.6	1632.0	1750.0	1895.5	2318.4
55°	2470.6	2452.0	2495.0	2557.3	2400.5	2033.0	1962.1	1841.9	2001.3	2184.8	2769.8
57.5°	2568.8	2568.4	2657.4	2768.4	2669.8	2252.9	2181.5	2095.1	2284.0	2516.2	3249.1
60°	2635.0	2653.7	2818.9	3034.5	2934.0	2507.3	2441.6	2387.7	2605.4	2886.7	3695.6
62.5°	2669.8	2694.9	2920.5	3142.5	3307.6	2930.6	2864.9	2787.1	3030.7	3293.0	3956.9
65°	2525.3	2575.0	2904.8	3235.7	3634.8	3616.8	3587.2	3450.6	3562.5	3614.2	3862.4
67.5°	2125.8	2176.8	2560.7	3148.6	3868.5	4278.4	4284.8	4051.4	3889.7	3641.6	3247.5
70°	1514.6	1554.5	1872.2	2639.8	3690.4	4711.0	4732.5	4328.5	3824.5	3229.5	2268.8
72.5°	719.2	743.5	1044.3	1718.1	2928.6	4316.4	4357.9	3974.9	3252.0	2391.1	1237.8
75°	264.3	271.7	352.9	731.0	1698.5	3183.1	3232.2	2849.3	2155.8	1190.3	471.5
77.5°	158.5	163.3	197.9	308.5	668.1	1819.3	1892.0	1549.7	942.1	443.0	231.9
80°	110.9	114.3	142.0	192.0	315.7	693.3	757.9	632.4	375.3	280.5	168.7
82.5°	74.9	76.6	99.9	129.7	209.8	247.7	267.2	281.2	253.1	208.6	107.1
85°	49.0	50.8	67.7	85.5	133.5	128.0	130.9	165.6	184.8	141.8	59.4
87.5°	28.1	29.3	40.8	45.6	65.4	54.3	54.7	87.2	118.2	95.6	36.1
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°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4
2.5°	681.9	678.1	669.7	664.7	659.7	658.5	656.7	656.3	656.0	656.0	655.1
5°	666.6	660.3	647.4	640.2	634.3	633.7	633.3	634.8	635.3	635.9	635.1
7.5°	656.9	648.2	632.1	621.8	614.7	613.0	615.9	622.4	626.7	628.5	627.6
10°	650.8	640.2	621.5	610.4	604.4	603.5	607.3	615.0	624.0	627.3	627.0
12.5°	643.9	631.9	612.1	600.3	597.0	598.6	603.5	610.7	619.9	625.3	625.6
15°	637.1	623.1	602.7	592.3	590.8	593.2	597.7	603.2	610.4	615.9	616.4
17.5°	628.8	614.1	593.8	583.1	582.0	583.1	583.4	586.4	590.8	596.0	597.6
20°	619.9	605.0	583.7	573.1	567.9	563.3	558.1	558.7	560.2	565.4	566.6
22.5°	613.5	598.6	576.0	561.4	547.5	533.8	523.4	522.0	522.5	526.9	528.4
25°	614.1	598.4	573.9	548.7	518.5	496.5	482.7	480.5	480.1	483.3	485.3
27.5°	625.3	609.5	581.5	535.7	487.1	454.4	439.6	438.0	435.6	436.4	438.8
30°	650.4	635.6	599.4	522.5	452.8	413.0	397.8	396.1	392.9	391.4	393.2
32.5°	691.1	678.9	625.8	510.0	418.7	377.6	362.1	358.5	356.4	354.7	356.2
35°	758.8	753.6	661.2	496.1	388.5	350.3	336.3	330.5	327.7	330.8	333.2
37.5°	865.0	867.9	707.3	474.7	365.3	332.4	320.5	314.0	309.6	312.3	314.9
40°	1015.4	1017.3	758.4	444.2	345.2	321.8	309.0	303.1	297.0	292.4	292.2
42.5°	1212.7	1192.4	808.7	411.2	322.0	315.0	301.0	293.6	284.5	271.7	269.2
45°	1446.9	1375.5	846.8	373.3	295.9	307.1	292.2	281.8	267.4	253.7	252.2
47.5°	1716.8	1572.0	865.4	334.0	271.5	295.4	281.2	264.9	246.9	239.8	239.0
50°	2046.1	1805.4	874.4	295.9	250.3	279.8	265.4	246.2	231.0	229.5	228.7
52.5°	2421.2	2086.0	877.3	264.6	232.8	259.7	252.6	233.9	221.8	223.0	223.0
55°	2813.9	2375.8	838.3	242.0	216.8	239.0	243.9	229.0	218.9	223.6	225.2
57.5°	3174.3	2632.8	715.4	224.3	201.5	223.3	240.7	233.6	226.7	245.3	246.6
60°	3450.8	2784.4	534.3	208.6	190.4	217.7	249.1	251.0	252.9	297.2	303.4
62.5°	3508.8	2734.0	367.3	196.3	185.1	222.4	264.3	264.6	262.6	293.6	297.2
65°	3242.8	2414.6	267.2	189.5	180.7	230.8	277.1	271.2	258.1	281.4	274.6
67.5°	2575.4	1819.2	222.4	184.2	174.5	230.1	291.1	277.1	255.4	275.8	264.6
70°	1671.7	1100.0	197.9	179.9	167.1	219.2	299.0	276.7	247.9	256.6	243.4
72.5°	815.7	491.9	181.6	173.6	159.3	204.1	298.7	271.5	240.1	239.6	232.4
75°	319.1	225.2	166.7	164.1	146.1	186.8	290.7	264.0	231.0	221.8	219.2
77.5°	186.8	160.6	147.9	150.0	130.3	169.6	279.0	251.0	218.4	207.5	204.6
80°	136.1	120.3	126.0	129.7	111.3	152.4	263.2	235.4	204.4	209.8	205.7
82.5°	87.2	77.4	102.1	105.9	92.6	134.8	246.0	218.6	184.5	167.7	163.6
85°	44.5	49.0	76.0	80.7	71.4	110.9	224.9	196.5	162.1	139.4	141.8
87.5°	25.0	33.5	48.5	54.3	50.6	85.2	182.5	162.1	132.3	107.5	94.7
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)