

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: P194899

Luminaire Tested: **GLEON-AF-01-LED-E1-T4W-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194899
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-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5000 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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

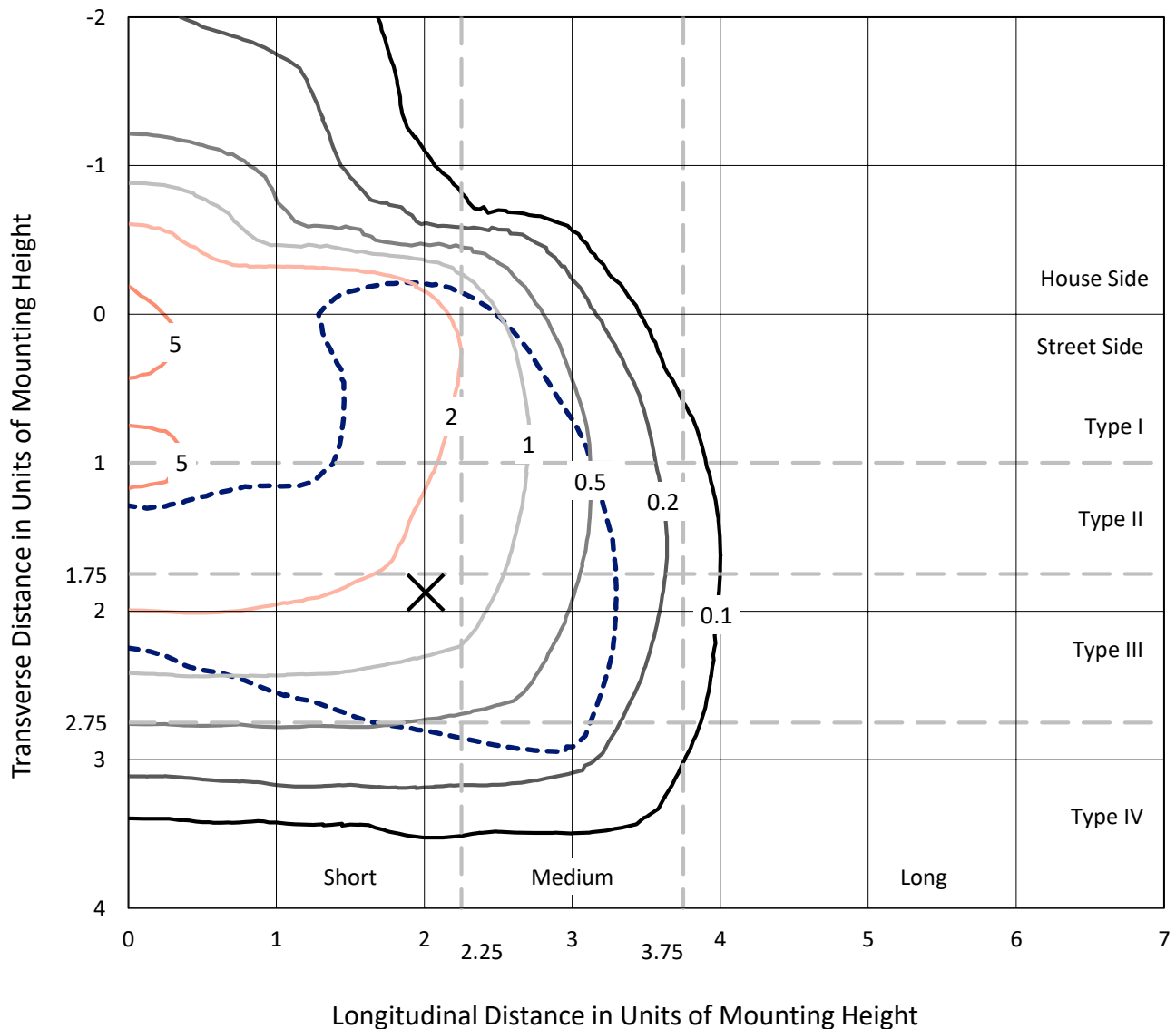


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

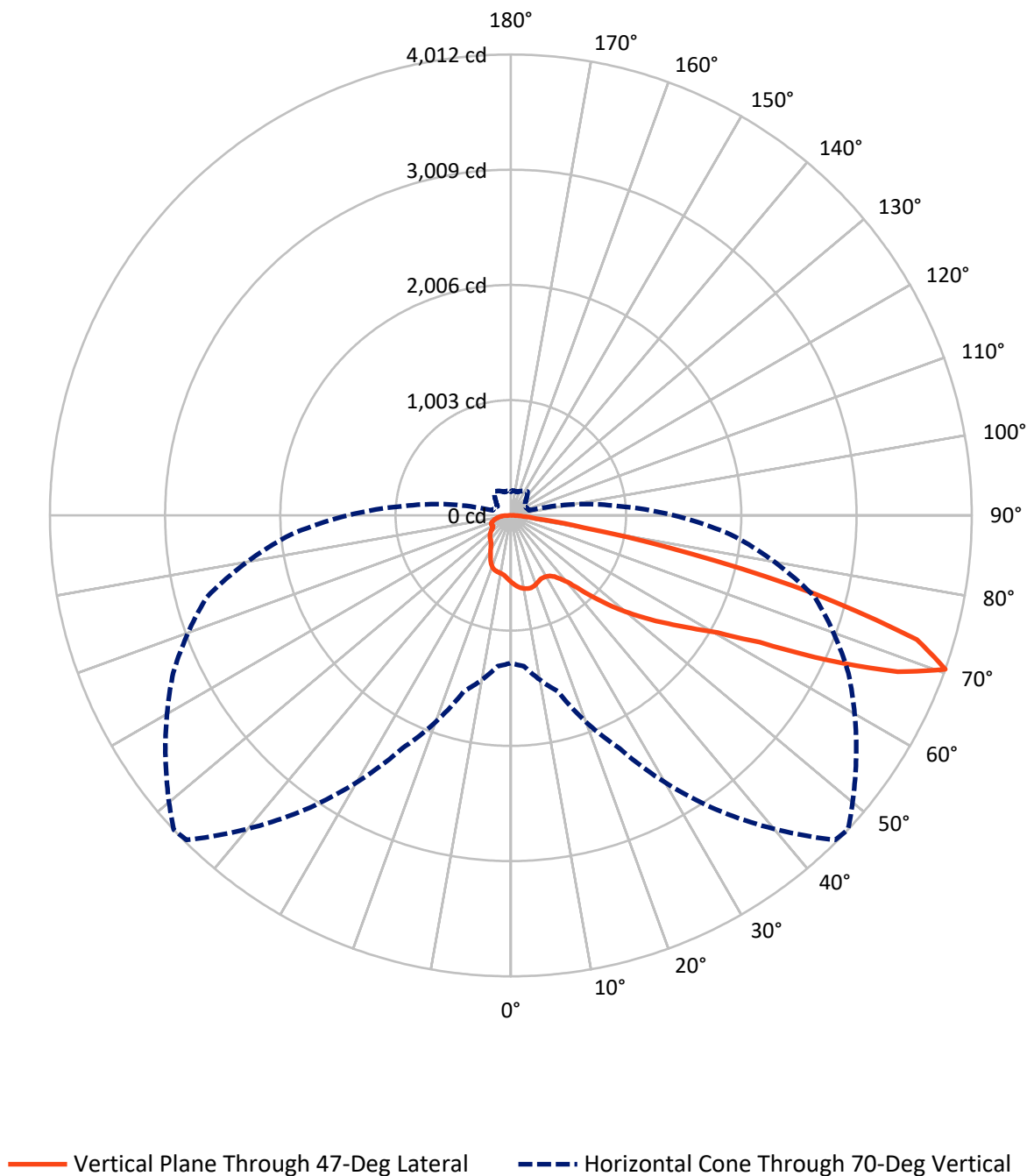


Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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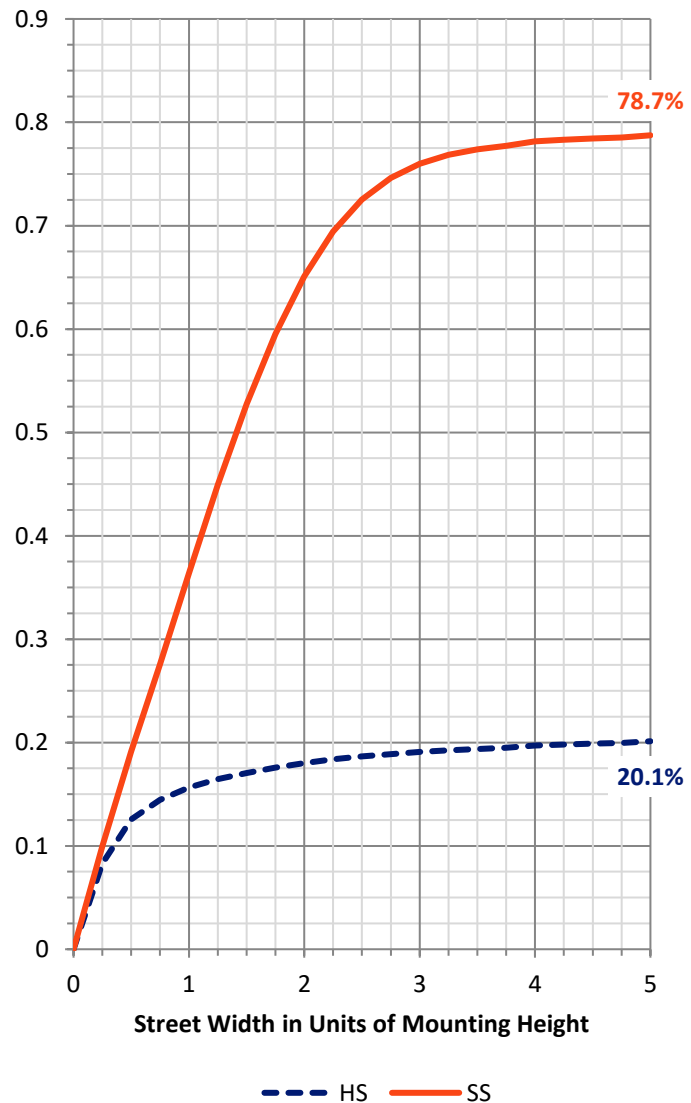
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1043.1	0.0	1043.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	3956.9	0.0	3956.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	5000.0	0.0	5000.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	1.1
10°-20°	163.1	3.3
20°-30°	240.8	4.8
30°-40°	350.0	7.0
40°-50°	630.0	12.6
50°-60°	1091.3	21.8
60°-70°	1557.6	31.2
70°-80°	799.6	16.0
80°-90°	111.9	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°	5000.0	100.0
0°-180°	5000.0	100.0

Coefficient of Utilization



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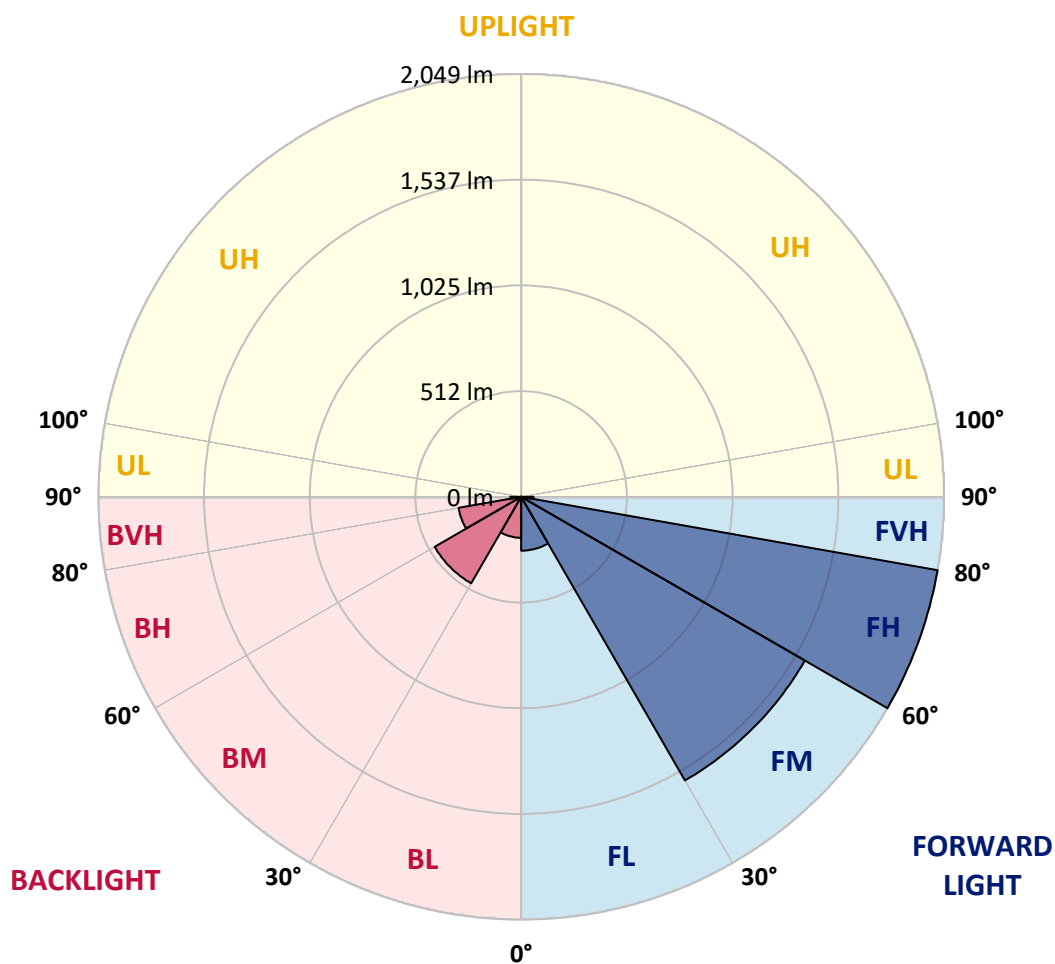
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	260.9	5.2			
FM	(30°-60°)	1587.1	31.7			
FH	(60°-80°)	2049.1	41.0			G2/5000
FVH	(80°-90°)	59.7	1.2			G1/100
BL	(0°-30°)	198.6	4.0	B1/500		
BM	(30°-60°)	484.2	9.7	B1/1000		
BH	(60°-80°)	308.1	6.2	B1/500		G1/500
BVH	(80°-90°)	52.2	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°	580.2	580.2	580.2	580.2	580.2	580.2	580.2	580.2	580.2	580.2	580.2
2.5°	614.2	613.0	612.5	611.5	610.3	604.2	603.0	598.6	592.6	586.2	579.7
5°	654.6	654.3	651.7	646.8	639.0	625.6	622.5	611.8	597.4	583.6	569.7
7.5°	690.1	687.9	682.8	673.1	659.5	641.2	636.8	622.0	602.3	583.3	564.6
10°	716.1	714.9	703.7	690.3	672.6	652.4	647.3	630.8	609.1	585.0	561.7
12.5°	731.0	728.5	715.6	699.6	678.4	658.7	653.6	636.8	612.5	585.0	557.5
15°	730.0	728.3	715.4	697.9	676.5	659.2	654.6	637.8	611.8	582.6	552.2
17.5°	710.5	711.3	700.3	683.1	665.5	652.4	648.3	632.7	606.9	577.7	545.9
20°	676.5	679.9	672.6	657.3	647.5	638.5	635.9	622.7	599.4	570.7	539.0
22.5°	642.4	645.6	642.7	629.8	628.3	623.0	621.5	612.0	592.8	566.3	534.9
25°	617.4	620.3	619.8	608.6	613.0	612.8	611.5	606.9	591.3	566.3	535.6
27.5°	610.6	611.5	610.6	600.3	606.4	611.3	610.3	609.6	595.7	573.3	544.9
30°	633.9	632.5	624.9	604.2	609.8	616.6	615.7	616.2	608.9	591.8	565.6
32.5°	727.1	720.5	696.7	638.5	623.7	627.3	627.8	635.9	637.1	620.3	597.7
35°	866.5	859.2	828.3	730.5	666.8	654.1	654.1	666.3	673.6	661.2	647.5
37.5°	1014.1	1006.1	989.5	857.9	757.2	700.6	699.3	707.9	718.3	721.2	724.6
40°	1182.0	1173.4	1178.1	1001.0	883.5	781.1	763.8	757.7	785.9	804.7	831.9
42.5°	1365.6	1361.7	1363.4	1160.3	1027.3	901.5	876.9	845.5	879.6	912.9	970.1
45°	1535.6	1539.1	1537.4	1330.8	1187.3	1048.4	1022.4	961.6	994.9	1052.1	1145.2
47.5°	1684.5	1670.4	1692.3	1517.2	1366.6	1212.9	1180.7	1099.3	1133.1	1203.6	1361.2
50°	1865.3	1863.3	1831.2	1765.8	1583.3	1378.0	1335.9	1241.6	1294.1	1392.1	1633.4
52.5°	2055.2	2020.0	1990.5	1959.2	1813.2	1547.3	1495.8	1383.4	1483.3	1606.7	1965.2
55°	2094.2	2078.3	2114.8	2167.6	2034.8	1723.2	1663.1	1561.2	1696.4	1851.9	2347.9
57.5°	2177.3	2177.1	2252.5	2346.7	2263.0	1909.8	1849.2	1776.0	1936.0	2132.8	2754.1
60°	2233.5	2249.3	2389.5	2572.1	2487.0	2125.3	2069.6	2023.9	2208.5	2446.9	3132.6
62.5°	2263.0	2284.4	2475.6	2663.6	2803.7	2484.1	2428.4	2362.5	2569.0	2791.3	3354.0
65°	2140.6	2182.7	2462.2	2742.7	3081.0	3065.7	3040.6	2924.9	3019.7	3063.5	3273.9
67.5°	1802.0	1845.1	2170.5	2669.0	3279.0	3626.6	3632.0	3434.2	3297.0	3086.9	2752.6
70°	1283.9	1317.7	1587.0	2237.7	3128.2	3993.2	4011.5	3669.0	3241.8	2737.6	1923.1
72.5°	609.6	630.3	885.2	1456.3	2482.4	3658.8	3694.0	3369.3	2756.5	2026.8	1049.1
75°	224.0	230.4	299.2	619.6	1439.8	2698.1	2739.7	2415.2	1827.3	1009.0	399.7
77.5°	134.3	138.4	167.8	261.5	566.3	1542.2	1603.8	1313.6	798.6	375.6	196.5
80°	93.9	96.8	120.4	162.7	267.6	587.7	642.4	536.1	318.2	237.7	143.0
82.5°	63.5	64.9	84.7	109.9	177.8	209.9	226.5	238.4	214.5	176.8	90.7
85°	41.6	43.1	57.4	72.5	113.1	108.5	110.9	140.4	156.7	120.2	50.4
87.5°	23.8	24.8	34.5	38.7	55.5	46.0	46.5	73.9	100.2	81.0	30.6
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°	580.2	580.2	580.2	580.2	580.2	580.2	580.2	580.2	580.2	580.2	580.2
2.5°	578.0	574.8	567.7	563.4	559.2	558.3	556.6	556.3	556.1	556.1	555.3
5°	565.1	559.7	548.8	542.7	537.6	537.1	536.9	538.1	538.6	539.0	538.3
7.5°	556.8	549.5	535.9	527.1	521.0	519.6	522.0	527.6	531.3	532.7	532.0
10°	551.7	542.7	526.9	517.4	512.3	511.6	514.7	521.3	528.8	531.7	531.5
12.5°	545.9	535.6	518.9	508.9	506.0	507.4	511.6	517.6	525.4	530.0	530.3
15°	540.0	528.1	510.8	502.1	500.9	502.8	506.7	511.3	517.4	522.0	522.5
17.5°	533.0	520.6	503.3	494.3	493.3	494.3	494.5	497.0	500.9	505.2	506.5
20°	525.4	512.8	494.8	485.8	481.4	477.5	473.1	473.6	474.8	479.2	480.2
22.5°	520.1	507.4	488.2	475.8	464.1	452.4	443.7	442.5	443.0	446.6	447.8
25°	520.6	507.2	486.5	465.1	439.6	420.8	409.1	407.2	407.0	409.6	411.3
27.5°	530.0	516.7	492.8	454.2	412.8	385.1	372.7	371.2	369.3	370.0	371.9
30°	551.2	538.8	508.2	443.0	383.9	350.0	337.1	335.7	333.0	331.8	333.3
32.5°	585.8	575.5	530.5	432.3	354.9	320.1	307.0	303.8	302.1	300.7	301.9
35°	643.2	638.8	560.5	420.6	329.4	297.0	285.1	280.2	277.8	280.5	282.4
37.5°	733.2	735.6	599.6	402.3	309.7	281.7	271.7	266.1	262.5	264.7	266.8
40°	860.6	862.3	642.9	376.6	292.6	272.7	262.0	256.9	251.8	247.9	247.6
42.5°	1028.0	1010.7	685.5	348.6	272.9	267.1	255.2	248.8	241.1	230.4	228.2
45°	1226.5	1165.9	717.8	316.5	250.8	260.3	247.6	238.9	226.7	215.0	213.8
47.5°	1455.1	1332.5	733.6	283.1	230.1	250.3	238.4	224.5	209.2	203.4	202.6
50°	1734.4	1530.3	741.2	250.8	212.1	237.2	225.0	208.7	195.8	194.6	193.9
52.5°	2052.3	1768.2	743.6	224.3	197.3	220.1	214.1	198.3	188.0	189.0	189.0
55°	2385.1	2013.9	710.5	205.1	183.7	202.6	206.8	194.1	185.6	189.5	191.0
57.5°	2690.6	2231.6	606.4	190.2	170.8	189.2	204.1	198.0	192.2	208.0	209.0
60°	2925.1	2360.3	452.9	176.8	161.3	184.6	211.1	212.8	214.3	252.0	257.1
62.5°	2974.2	2317.5	311.4	166.4	156.9	188.5	224.0	224.3	222.6	248.8	252.0
65°	2748.7	2046.7	226.5	160.5	153.2	195.6	235.0	229.9	218.7	238.6	232.8
67.5°	2182.9	1542.0	188.5	156.2	147.9	195.1	246.7	235.0	216.5	233.8	224.3
70°	1416.9	932.4	167.8	152.5	141.6	185.8	253.5	234.5	210.2	217.5	206.3
72.5°	691.3	416.9	154.0	147.2	135.0	173.0	253.2	230.1	203.6	203.1	197.0
75°	270.5	191.0	141.3	139.1	123.8	158.4	246.4	223.8	195.8	188.0	185.8
77.5°	158.4	136.2	125.3	127.2	110.4	143.8	236.4	212.8	185.1	175.9	173.4
80°	115.3	101.9	106.8	109.9	94.4	129.2	223.1	199.5	173.2	177.8	174.4
82.5°	73.9	65.7	86.6	89.8	78.6	114.3	208.5	185.4	156.4	142.1	138.7
85°	37.7	41.6	64.5	68.4	60.6	93.9	190.7	166.6	137.4	118.2	120.2
87.5°	21.2	28.5	41.1	46.0	42.8	72.2	154.7	137.4	112.1	91.2	80.3
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)