

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: P193219

Luminaire Tested: **GLEON-AF-01-LED-E1-T3R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4978.9 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full 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



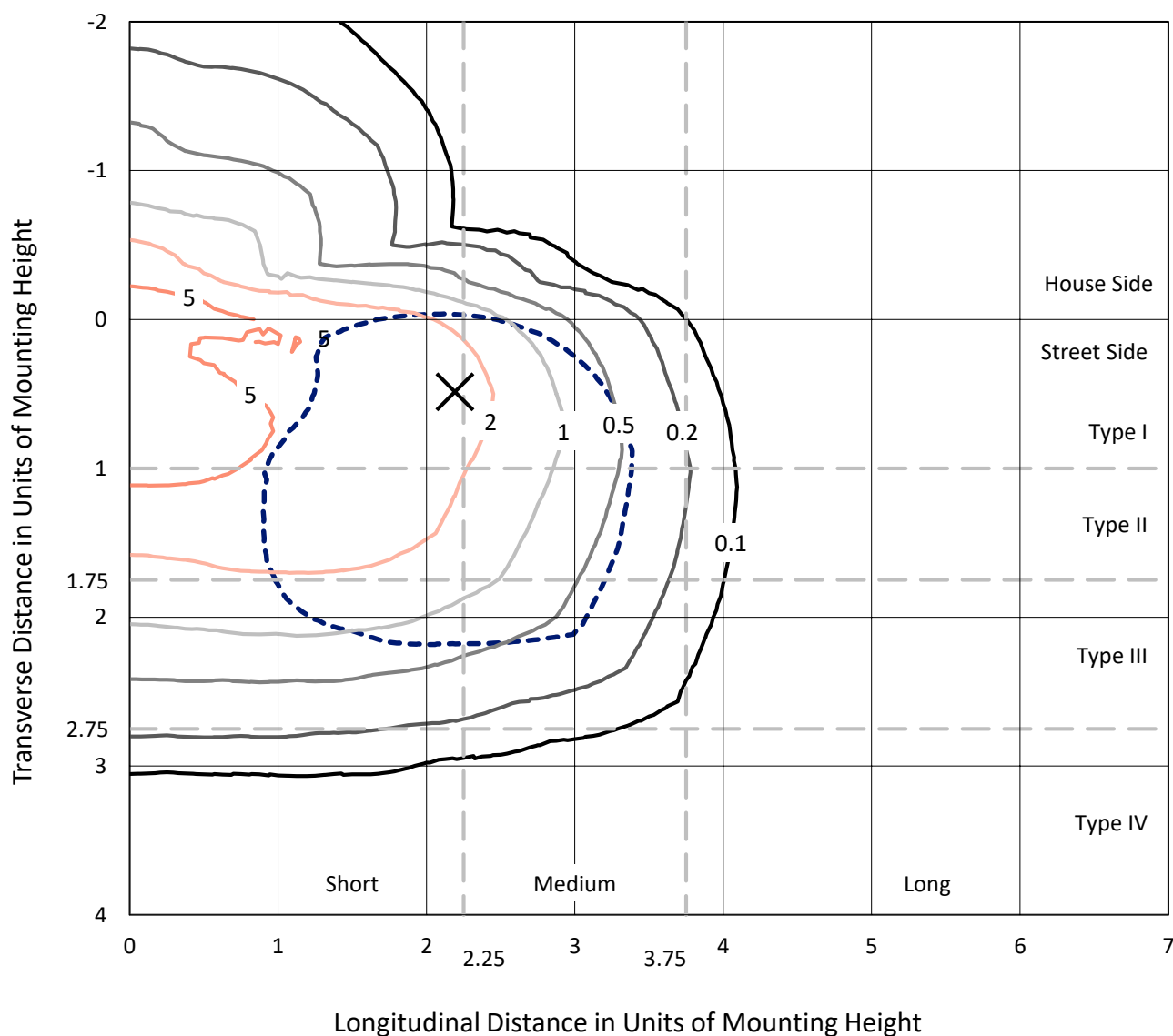
REPORT NUMBER: P193219

CATALOG NUMBER: GLEON-AF-01-LED-E1-T3R-7030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

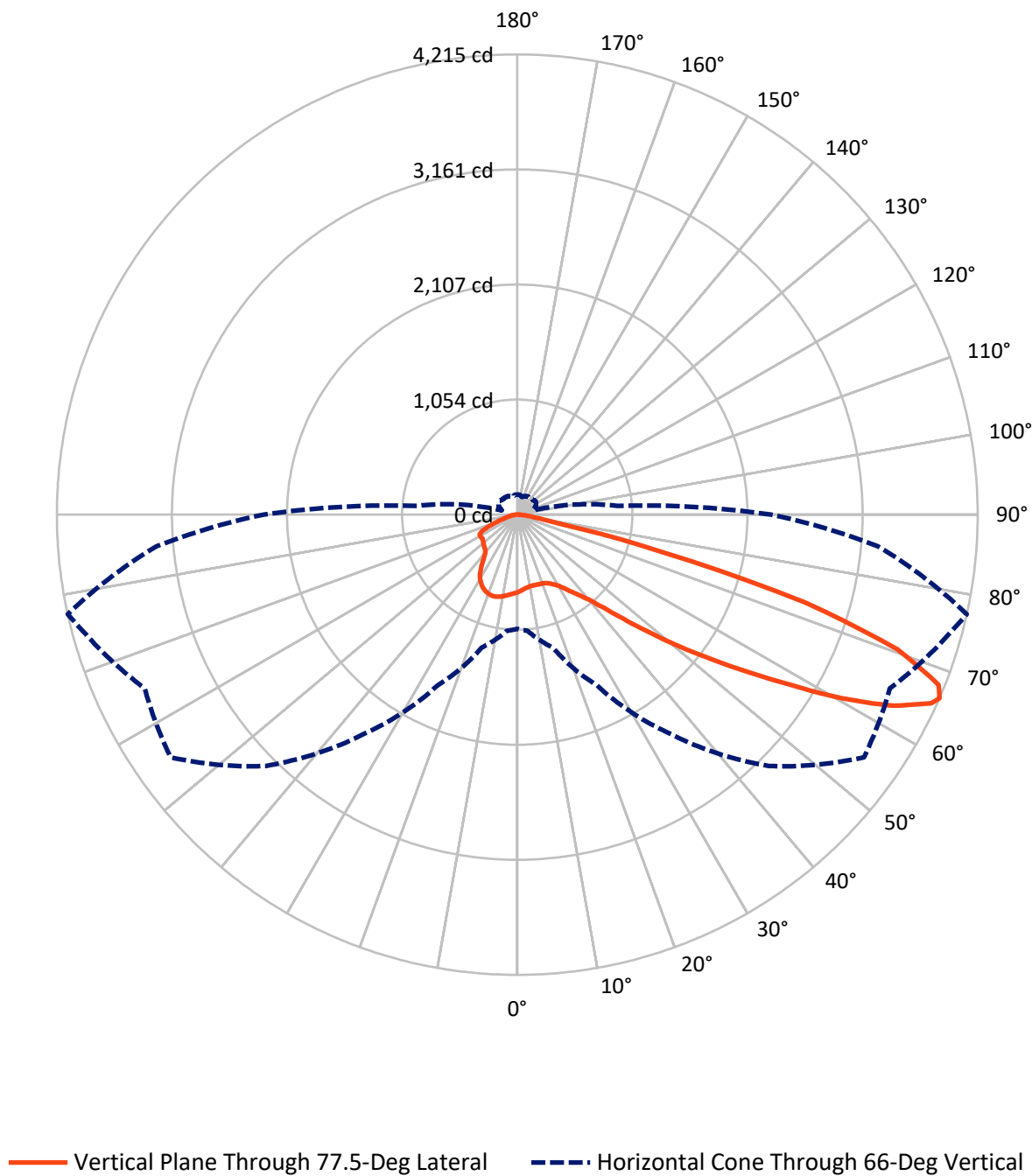


Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P193219

CATALOG NUMBER: GLEON-AF-01-LED-E1-T3R-7030-800

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	850.6	0.0	850.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	4128.3	0.0	4128.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	4978.9	0.0	4978.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	1.3
10°-20°	178.8	3.6
20°-30°	305.2	6.1
30°-40°	488.6	9.8
40°-50°	754.8	15.2
50°-60°	1070.6	21.5
60°-70°	1432.2	28.8
70°-80°	622.0	12.5
80°-90°	63.4	1.3
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°	4978.9	100.0
0°-180°	4978.9	100.0

Coefficient of Utilization



REPORT NUMBER: P193219

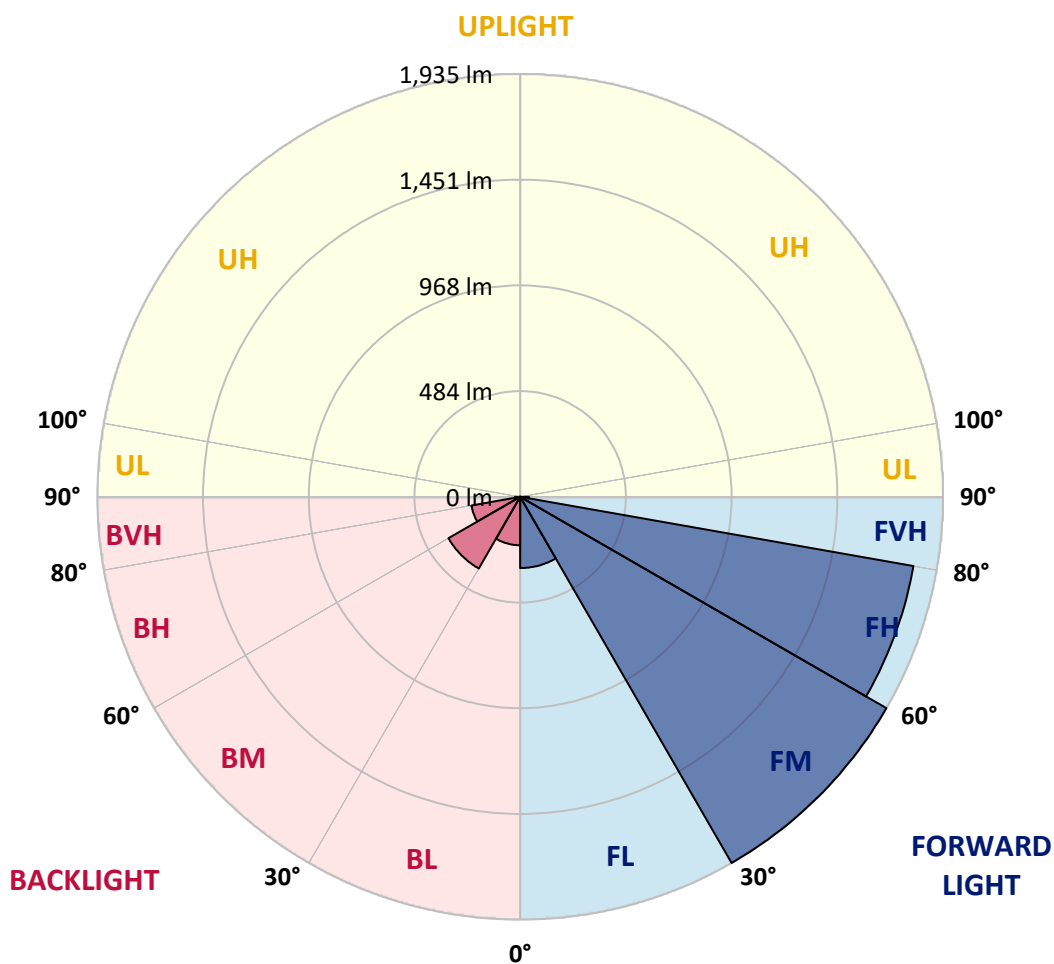
CATALOG NUMBER: GLEON-AF-01-LED-E1-T3R-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	325.9	6.5			
FM	(30°-60°)	1935.1	38.9			
FH	(60°-80°)	1827.6	36.7			G2/5000
FVH	(80°-90°)	39.8	0.8			G1/100
BL	(0°-30°)	221.5	4.4	B1/500		
BM	(30°-60°)	378.9	7.6	B1/1000		
BH	(60°-80°)	226.5	4.5	B1/500		G1/500
BVH	(80°-90°)	23.6	0.5			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



REPORT NUMBER: P193219

CATALOG NUMBER: GLEON-AF-01-LED-E1-T3R-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5
2.5°	627.7	631.8	635.5	638.7	645.2	656.1	668.5	678.7	693.2	696.1	703.8
5°	570.0	570.0	572.8	577.8	586.7	603.0	619.9	642.5	674.2	681.8	702.4
7.5°	542.0	542.3	543.9	548.2	555.9	570.8	589.4	615.9	659.0	671.4	706.7
10°	552.5	550.0	546.6	544.3	545.5	554.3	571.9	601.6	649.5	665.5	716.0
12.5°	610.2	605.8	593.5	577.3	561.8	555.5	565.8	594.7	645.5	664.1	728.5
15°	704.8	703.0	680.1	646.5	608.8	577.3	570.3	592.1	646.0	665.7	743.4
17.5°	823.4	820.7	790.7	741.8	680.3	619.0	586.0	594.3	647.7	668.5	757.7
20°	943.1	935.1	902.7	844.3	765.5	675.7	612.2	599.7	649.8	671.6	772.8
22.5°	1032.5	1026.0	996.8	940.0	849.3	741.4	647.2	609.1	656.5	680.5	791.4
25°	1111.0	1111.6	1082.6	1027.8	933.9	810.9	692.3	634.2	674.0	698.9	816.8
27.5°	1208.3	1202.6	1175.5	1121.2	1017.7	881.2	746.9	668.7	700.0	725.1	850.2
30°	1324.4	1320.5	1289.1	1227.5	1110.6	956.8	809.3	709.1	733.2	759.4	894.0
32.5°	1461.2	1459.2	1426.8	1347.5	1217.9	1045.7	882.5	762.2	783.2	810.1	956.8
35°	1621.6	1621.9	1583.5	1488.2	1335.2	1149.2	965.6	830.7	843.8	872.1	1031.6
37.5°	1720.4	1732.5	1718.1	1620.9	1468.2	1265.0	1073.3	921.5	913.0	941.5	1111.8
40°	1741.6	1756.2	1801.5	1752.2	1616.9	1392.5	1168.7	1008.8	998.2	1033.0	1215.1
42.5°	1712.0	1732.2	1828.1	1863.0	1774.7	1549.7	1297.2	1138.4	1125.0	1171.8	1343.6
45°	1694.3	1709.4	1820.4	1920.6	1911.7	1727.3	1460.7	1301.2	1296.3	1357.6	1491.7
47.5°	1663.7	1677.3	1784.2	1934.0	1992.2	1890.0	1657.1	1500.2	1509.9	1590.3	1659.0
50°	1680.2	1685.9	1743.7	1899.9	2015.4	2009.3	1876.6	1730.7	1763.7	1864.2	1848.3
52.5°	1677.7	1692.4	1739.0	1843.9	2018.4	2082.9	2092.9	1987.9	2057.3	2172.5	2058.5
55°	1356.5	1383.3	1683.6	1829.8	2029.3	2155.1	2285.2	2258.9	2388.3	2522.6	2295.6
57.5°	1295.3	1312.2	1478.9	1859.5	2086.8	2293.1	2499.3	2557.2	2773.6	2929.6	2584.5
60°	1283.4	1304.2	1476.6	1895.6	2203.1	2517.7	2816.7	2918.4	3242.5	3413.3	2919.5
62.5°	1245.9	1268.5	1462.8	1891.0	2368.5	2828.4	3222.9	3302.3	3687.2	3853.2	3199.6
65°	1127.3	1148.6	1349.7	1815.1	2480.0	3160.1	3703.8	3654.1	4038.1	4163.0	3339.4
66°	1046.1	1066.9	1260.6	1725.5	2454.2	3254.3	3874.2	3763.1	4116.7	4214.5	3312.0
67.5°	897.7	914.0	1087.3	1525.4	2316.6	3280.6	4017.5	3845.0	4125.0	4159.5	3156.2
70°	567.2	571.9	706.7	1053.0	1753.6	2845.1	3799.4	3641.7	3784.7	3691.1	2645.9
72.5°	246.1	244.4	339.2	535.7	992.7	1909.1	3073.4	3004.8	2968.9	2755.3	1852.2
75°	136.9	138.8	176.2	248.7	403.5	937.8	2010.5	1923.9	1624.4	1386.1	839.8
77.5°	110.0	112.4	146.1	176.5	181.2	327.0	940.8	765.5	460.8	369.9	233.4
80°	86.9	91.6	127.5	137.3	122.1	134.8	304.0	243.0	182.4	167.2	121.0
82.5°	68.8	72.0	109.4	104.1	85.4	90.8	145.7	141.8	118.5	107.9	69.8
85°	49.3	55.5	89.9	78.3	55.9	61.1	96.7	92.7	68.0	55.5	30.8
87.5°	20.2	26.3	63.5	52.0	31.2	28.5	48.2	45.5	32.2	23.5	15.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P193219

CATALOG NUMBER: GLEON-AF-01-LED-E1-T3R-7030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5
2.5°	708.8	714.4	721.7	726.2	728.5	730.2	732.8	732.6	733.2	733.5	734.4
5°	713.6	723.0	733.5	736.3	736.3	733.7	731.2	726.9	725.3	724.8	725.3
7.5°	725.8	736.1	745.2	742.0	734.9	724.6	711.2	699.4	693.0	690.9	690.5
10°	741.4	753.8	757.5	745.0	724.4	699.4	672.8	653.5	642.5	639.3	638.5
12.5°	760.1	771.9	766.7	740.3	702.0	661.8	625.1	594.3	571.2	563.9	563.4
15°	780.7	790.0	771.9	725.8	668.5	609.3	543.9	490.7	462.0	452.9	452.2
17.5°	800.1	804.8	768.8	700.4	619.4	523.5	436.6	395.7	385.8	388.2	388.6
20°	816.6	816.6	758.5	663.9	542.0	410.3	355.4	354.8	361.8	368.9	370.3
22.5°	834.6	823.9	740.3	612.4	432.4	335.8	327.7	334.4	342.3	350.0	351.3
25°	857.0	829.8	715.2	534.3	339.9	305.0	307.9	313.3	317.4	322.4	323.0
27.5°	881.9	837.3	682.0	426.7	295.0	285.6	287.9	289.9	289.3	291.2	291.7
30°	911.9	846.0	636.6	333.6	276.4	269.1	264.9	263.2	263.2	266.3	267.4
32.5°	951.8	858.9	571.4	285.8	267.4	257.5	243.7	237.6	240.0	250.3	252.6
35°	995.8	872.8	483.3	269.7	265.6	252.0	230.7	219.5	219.7	229.3	232.4
37.5°	1043.9	890.5	386.6	266.6	269.9	252.2	224.0	208.4	202.1	202.1	203.2
40°	1105.2	908.6	312.9	268.7	278.7	255.0	220.4	199.7	181.8	182.4	183.2
42.5°	1185.3	924.2	273.3	273.1	289.6	258.7	220.1	188.3	172.6	183.2	193.0
45°	1274.2	931.9	256.0	277.1	298.3	261.1	216.5	186.3	173.8	205.4	223.8
47.5°	1376.4	927.4	246.3	278.5	300.5	261.1	212.2	190.7	182.1	237.8	259.3
50°	1488.6	914.4	236.9	275.8	299.7	260.7	216.3	195.2	185.2	243.5	258.3
52.5°	1620.7	903.6	227.0	269.7	294.8	258.1	220.9	193.4	175.5	221.4	231.7
55°	1771.2	906.7	216.0	260.9	287.1	253.2	219.3	185.8	165.4	195.0	201.4
57.5°	1963.6	943.1	202.7	249.8	276.4	244.8	213.4	182.4	162.4	176.9	180.8
60°	2178.4	1006.6	186.3	238.7	263.2	231.7	208.9	184.0	163.8	175.5	177.3
62.5°	2336.1	1043.5	172.2	222.6	245.4	217.1	203.2	186.1	167.5	180.4	180.0
65°	2378.9	982.9	154.6	198.8	221.1	201.8	196.2	188.5	169.2	184.4	182.4
66°	2318.9	917.4	146.9	187.7	208.9	194.4	192.7	188.3	168.5	184.8	181.4
67.5°	2173.2	783.4	133.4	171.5	189.3	183.0	187.1	186.1	166.5	184.4	179.5
70°	1772.4	534.5	114.0	142.8	157.7	161.1	176.2	178.5	160.4	176.2	165.4
72.5°	1238.4	325.6	100.9	110.8	127.5	137.3	161.3	168.3	152.2	153.8	143.4
75°	598.5	172.9	91.6	85.9	99.0	114.8	143.4	154.0	139.3	128.7	124.9
77.5°	186.5	105.7	77.7	69.2	77.7	92.7	119.9	135.1	124.0	107.7	106.3
80°	100.2	77.7	59.8	55.5	61.4	72.6	94.3	112.6	106.5	96.7	86.4
82.5°	66.1	50.4	44.2	43.0	46.8	55.5	70.2	93.4	93.4	82.8	60.2
85°	34.1	30.8	30.4	30.4	32.7	36.9	47.7	72.0	76.7	43.7	36.3
87.5°	16.9	17.6	16.5	17.2	18.3	18.1	22.8	36.3	43.2	26.6	22.1
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)