

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: P193659

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3510 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

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

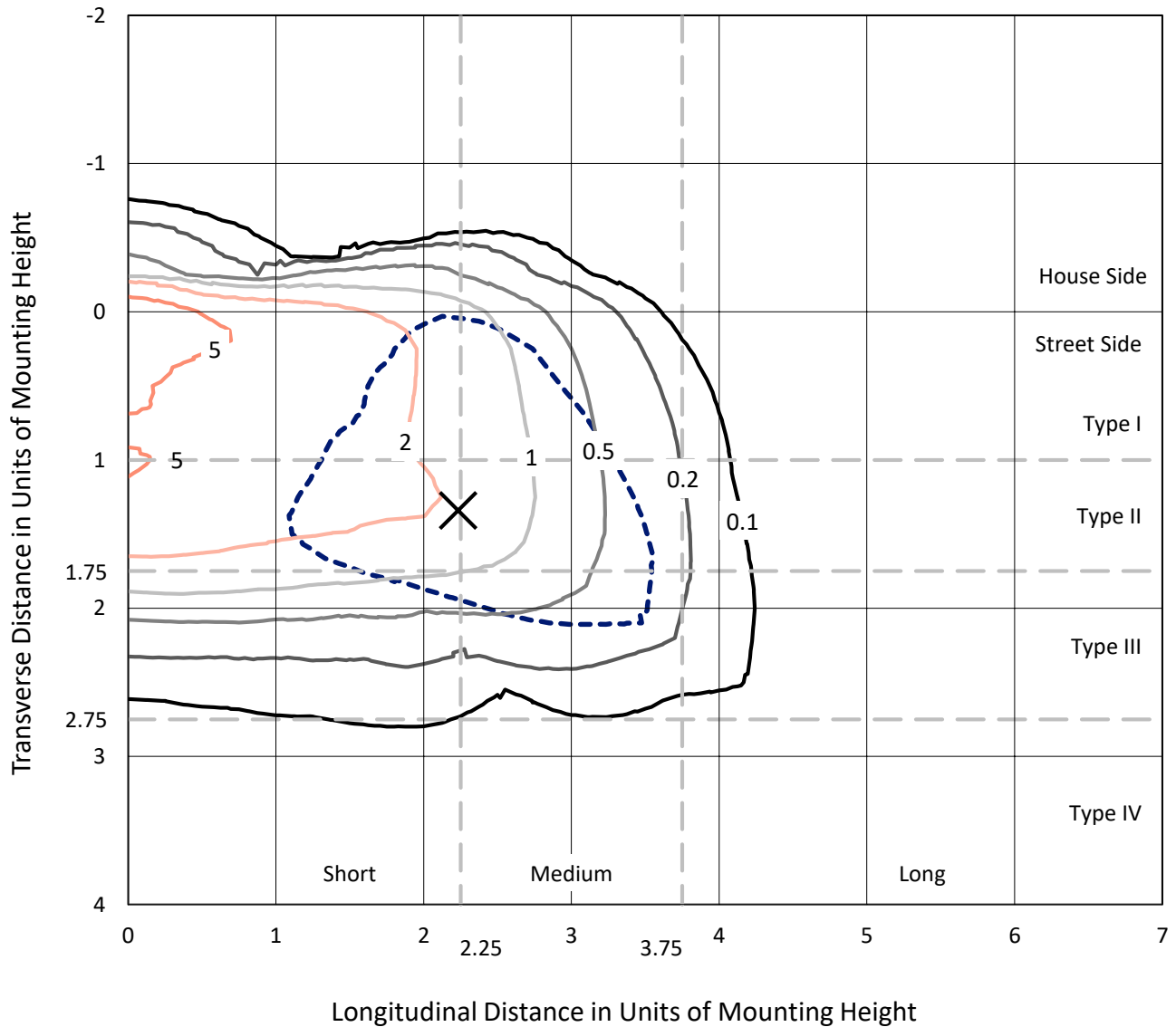


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

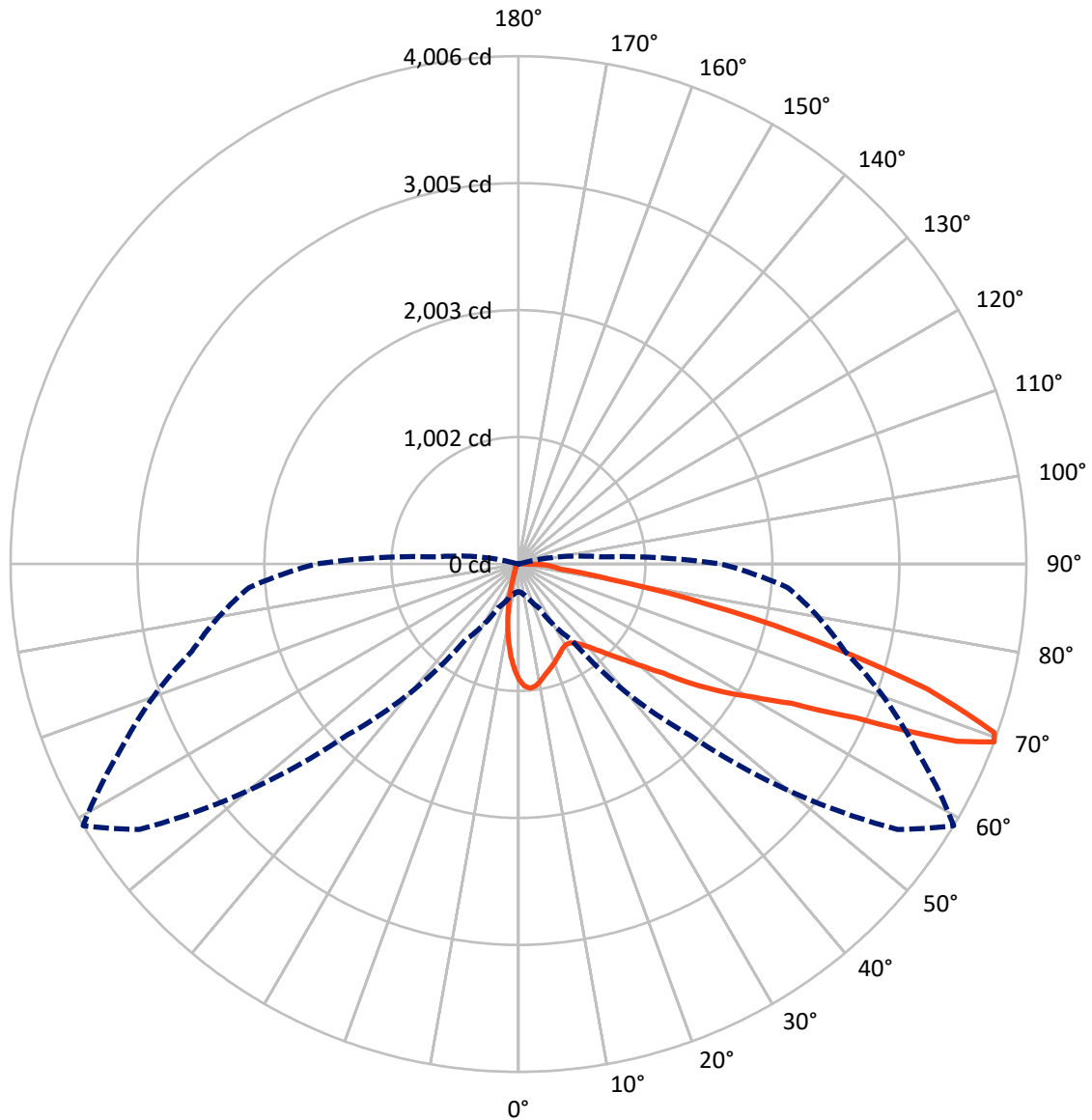


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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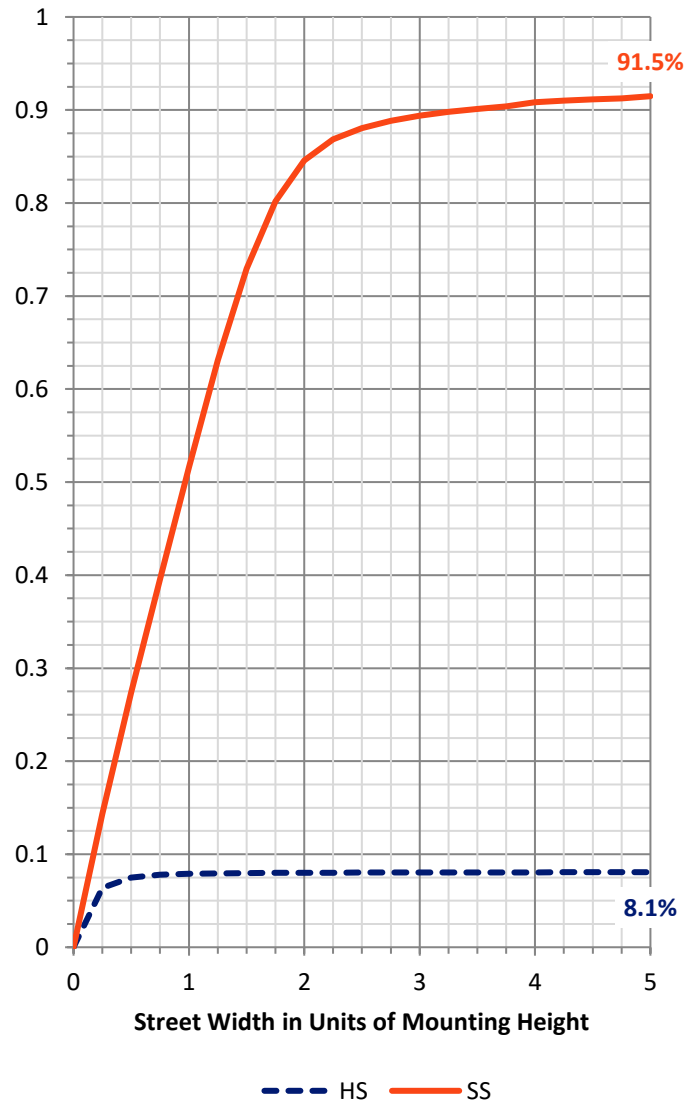
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	285.9	0.0	285.9
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	3224.2	0.0	3224.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	3510.0	0.0	3510.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	2.1
10°-20°	153.2	4.4
20°-30°	206.2	5.9
30°-40°	299.4	8.5
40°-50°	498.5	14.2
50°-60°	777.6	22.2
60°-70°	962.3	27.4
70°-80°	487.7	13.9
80°-90°	51.0	1.5
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°	3510.0	100.0
0°-180°	3510.0	100.0



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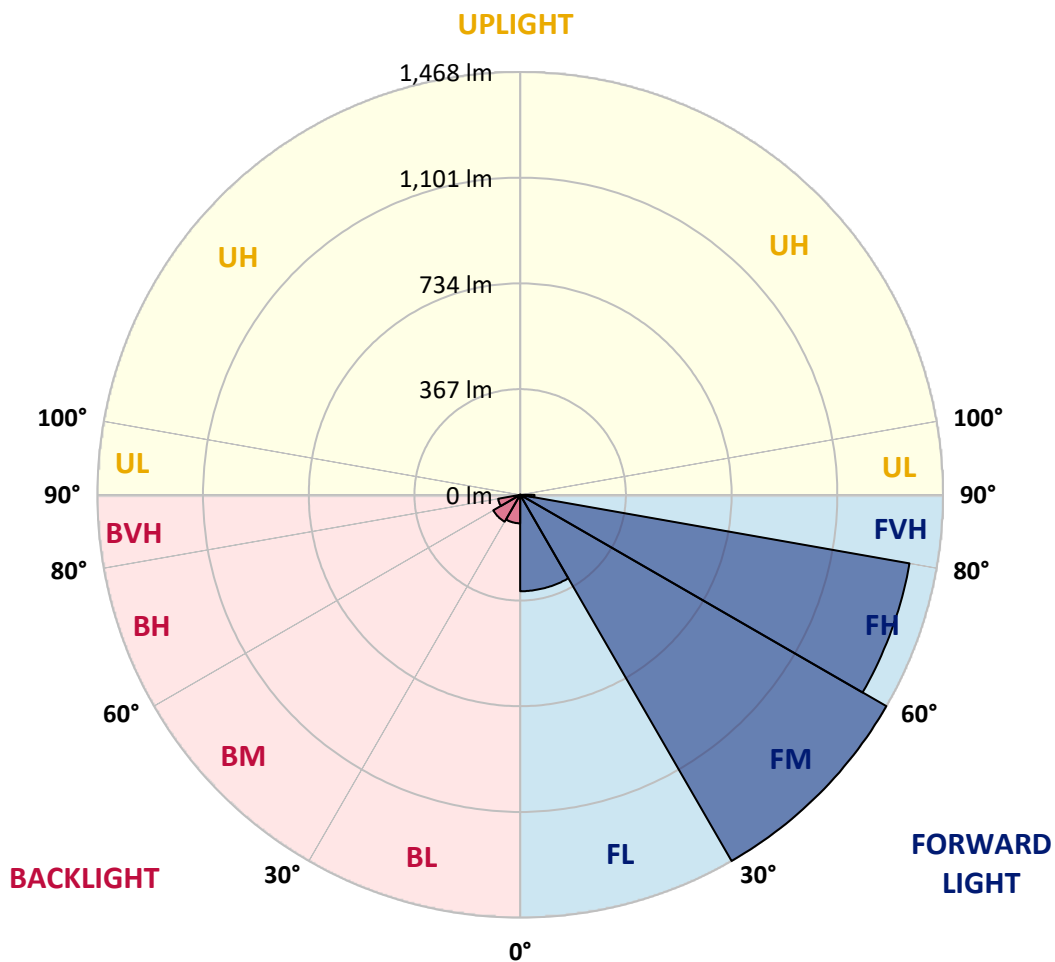
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.6	9.5			
FM	(30°-60°)	1467.8	41.8			
FH	(60°-80°)	1372.3	39.1			G1/1800
FVH	(80°-90°)	49.5	1.4			G1/100
BL	(0°-30°)	98.9	2.8	B0/110		
BM	(30°-60°)	107.7	3.1	B0/220		
BH	(60°-80°)	77.6	2.2	B0/110		G0/110
BVH	(80°-90°)	1.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6
2.5°	1001.3	1000.9	996.6	994.6	991.0	983.5	971.8	965.6	955.7	938.4	915.2
5°	992.2	997.0	999.5	999.7	1002.3	999.5	989.0	983.9	970.2	942.4	900.7
7.5°	930.3	932.1	939.4	945.8	958.1	969.8	973.5	971.4	963.2	933.5	878.1
10°	864.0	865.8	874.5	882.8	899.5	917.6	936.6	940.6	944.0	920.7	856.2
12.5°	806.8	808.6	817.5	828.5	847.9	870.1	899.7	906.3	921.1	908.6	838.8
15°	757.6	758.4	767.1	780.6	803.8	832.4	866.0	876.5	899.3	900.1	823.5
17.5°	715.7	717.7	723.1	736.0	761.4	796.7	835.8	850.9	877.7	893.0	808.6
20°	690.1	692.1	691.9	699.0	721.9	759.6	805.6	823.7	856.2	885.6	795.3
22.5°	685.2	685.2	680.0	679.0	692.5	724.1	774.3	796.3	837.0	882.4	786.0
25°	702.8	702.0	689.1	678.6	679.2	698.1	743.9	770.1	820.7	884.6	781.0
27.5°	740.1	739.1	722.9	702.8	686.7	686.5	720.9	749.1	807.8	894.9	783.0
30°	791.7	791.3	773.7	748.5	719.3	692.5	712.9	738.5	799.5	913.6	787.6
32.5°	848.1	847.5	834.2	807.6	770.7	719.3	721.3	742.7	801.9	938.4	798.7
35°	907.8	906.9	901.1	877.9	837.2	768.7	748.7	765.3	816.9	975.5	820.5
37.5°	972.6	973.5	977.7	955.5	912.8	838.0	794.5	805.8	847.3	1025.9	856.0
40°	1068.0	1067.8	1069.2	1040.0	999.0	922.7	858.6	862.2	898.1	1092.8	910.0
42.5°	1241.3	1229.2	1192.5	1132.9	1091.6	1019.6	939.4	935.6	960.2	1175.6	985.7
45°	1474.1	1448.3	1353.0	1238.9	1186.1	1128.8	1038.8	1026.7	1042.4	1275.0	1078.9
47.5°	1674.4	1647.6	1512.8	1349.3	1286.4	1232.4	1155.4	1133.5	1138.7	1386.4	1197.2
50°	1742.5	1729.4	1611.7	1445.3	1383.4	1362.8	1290.5	1263.9	1256.6	1515.2	1334.4
52.5°	1718.8	1717.8	1639.4	1507.7	1472.3	1497.7	1460.6	1429.9	1402.9	1651.0	1473.9
55°	1680.9	1685.9	1650.8	1562.2	1561.0	1621.0	1693.2	1667.6	1589.4	1798.4	1594.2
57.5°	1576.3	1597.6	1644.4	1665.4	1714.3	1775.6	1887.0	1902.0	1809.5	1911.4	1694.0
60°	1279.0	1325.6	1478.9	1680.3	1911.8	2064.6	2120.8	2133.7	1990.2	2005.2	1828.8
62.5°	907.8	955.5	1149.8	1490.6	1914.7	2444.3	2469.1	2418.5	2189.0	2144.4	2061.2
65°	481.9	518.6	677.4	1076.0	1660.1	2532.4	3078.2	2927.4	2540.0	2418.1	2361.5
67.5°	246.5	257.6	320.7	526.6	1141.3	2249.4	3624.2	3730.4	3144.7	2689.6	2347.0
69°	218.1	224.7	266.6	380.7	730.8	1905.2	3650.8	4006.1	3461.3	2667.0	2132.9
70°	211.2	216.9	255.0	344.6	571.2	1597.8	3549.0	3981.9	3542.3	2580.8	1972.9
72.5°	179.2	184.2	227.1	304.5	464.2	793.1	2882.9	3374.2	3178.7	2149.9	1428.1
75°	119.9	136.2	217.9	285.4	431.9	450.6	1900.6	2438.3	2265.1	1450.1	743.9
77.5°	28.8	31.0	61.5	227.1	395.0	396.6	977.5	1515.8	1236.3	516.8	175.9
80°	15.5	14.9	17.3	45.1	367.8	372.2	440.0	735.8	441.4	85.7	58.0
82.5°	10.9	10.3	11.1	18.9	115.7	339.0	318.4	333.0	183.0	32.9	26.0
85°	4.0	3.8	6.2	17.1	36.3	194.9	327.1	274.7	148.3	15.1	19.1
87.5°	1.4	1.2	2.4	9.3	11.1	83.0	201.9	207.6	58.4	9.1	8.9
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°	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6
2.5°	905.5	893.2	870.5	847.3	825.9	800.1	787.2	774.5	769.1	767.1	757.8
5°	879.3	858.4	810.4	762.2	717.7	670.5	639.3	614.3	599.6	592.5	581.2
7.5°	845.7	811.6	738.7	664.3	595.0	526.8	476.2	437.3	410.5	397.6	385.8
10°	813.2	767.7	664.1	562.7	468.6	378.1	308.2	257.6	225.3	210.4	200.9
12.5°	784.0	725.0	592.1	463.6	345.6	239.6	168.5	128.2	108.2	101.2	97.9
15°	758.0	685.7	524.0	369.6	234.0	137.0	92.1	78.4	75.2	75.2	74.8
17.5°	733.4	647.2	458.3	281.2	146.9	83.8	70.1	68.3	68.3	69.1	69.1
20°	709.8	610.5	394.8	201.9	92.5	66.5	63.3	62.9	63.3	64.3	64.3
22.5°	689.5	577.2	335.4	138.5	68.7	59.9	58.4	57.8	58.0	58.6	58.9
25°	674.4	549.0	279.5	93.9	59.1	54.6	52.8	51.8	51.0	51.0	51.4
27.5°	664.9	525.2	225.3	68.3	53.2	49.6	46.8	45.3	43.5	42.5	42.9
30°	658.0	502.6	174.5	55.8	47.6	44.1	40.5	37.9	35.3	34.1	34.5
32.5°	655.4	484.3	130.4	49.2	42.7	38.7	34.3	31.0	28.2	27.2	27.4
35°	662.3	469.8	95.5	44.5	38.7	33.7	28.8	25.0	22.8	22.2	22.4
37.5°	680.6	462.1	71.5	40.5	35.1	29.6	24.0	20.4	19.1	19.1	19.3
40°	715.1	461.9	57.4	37.7	32.0	25.6	19.8	17.3	16.5	16.9	17.1
42.5°	765.5	472.4	50.0	35.1	29.2	21.8	16.5	14.7	14.5	14.9	15.1
45°	834.4	491.6	46.0	32.9	26.2	18.3	13.9	12.7	12.7	13.3	13.5
47.5°	918.8	519.8	42.7	30.8	23.2	15.3	11.9	11.1	11.3	11.9	12.1
50°	1020.4	555.3	39.3	28.4	21.0	12.7	10.3	9.7	9.9	10.7	10.9
52.5°	1136.1	603.2	36.5	26.2	18.3	10.5	8.7	8.3	8.7	9.5	9.7
55°	1235.3	646.1	33.1	24.4	14.7	8.7	7.1	7.1	7.5	8.5	8.7
57.5°	1330.8	690.9	30.2	21.0	11.5	6.9	6.0	6.2	6.7	7.7	7.9
60°	1470.9	766.9	26.6	17.7	8.7	5.6	5.0	5.2	6.0	6.9	7.1
62.5°	1708.9	882.6	23.0	14.7	6.7	4.4	4.0	4.4	5.4	6.5	6.7
65°	1923.7	929.7	18.9	12.3	5.2	3.4	3.4	4.0	5.2	6.4	6.5
67.5°	1804.0	782.6	14.7	9.7	4.0	2.6	2.8	3.8	5.0	6.4	6.5
69°	1595.4	639.9	12.5	7.7	3.4	2.4	2.6	3.8	5.0	6.2	6.4
70°	1432.8	540.3	11.1	6.5	3.0	2.4	2.6	3.6	5.0	6.2	6.4
72.5°	959.7	291.8	8.9	4.8	2.8	2.2	2.2	3.6	4.8	6.0	6.2
75°	412.4	80.6	7.1	3.4	2.4	2.0	2.0	3.4	4.6	5.8	6.2
77.5°	75.4	20.4	5.8	3.0	2.4	2.0	1.8	3.2	4.4	5.6	5.8
80°	30.0	10.1	4.6	2.6	2.2	1.8	1.6	3.0	4.2	5.4	5.6
82.5°	18.1	5.8	3.8	2.4	2.2	1.6	1.4	2.6	4.0	5.2	5.4
85°	14.7	4.0	3.0	2.4	2.0	1.6	1.2	2.4	3.6	5.0	5.2
87.5°	7.1	2.8	2.8	2.2	2.0	1.6	1.2	2.2	3.4	4.8	5.0
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)