

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: P191349

Luminaire Tested: **GLEON-AF-01-LED-E1-T2-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4121.5 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G1

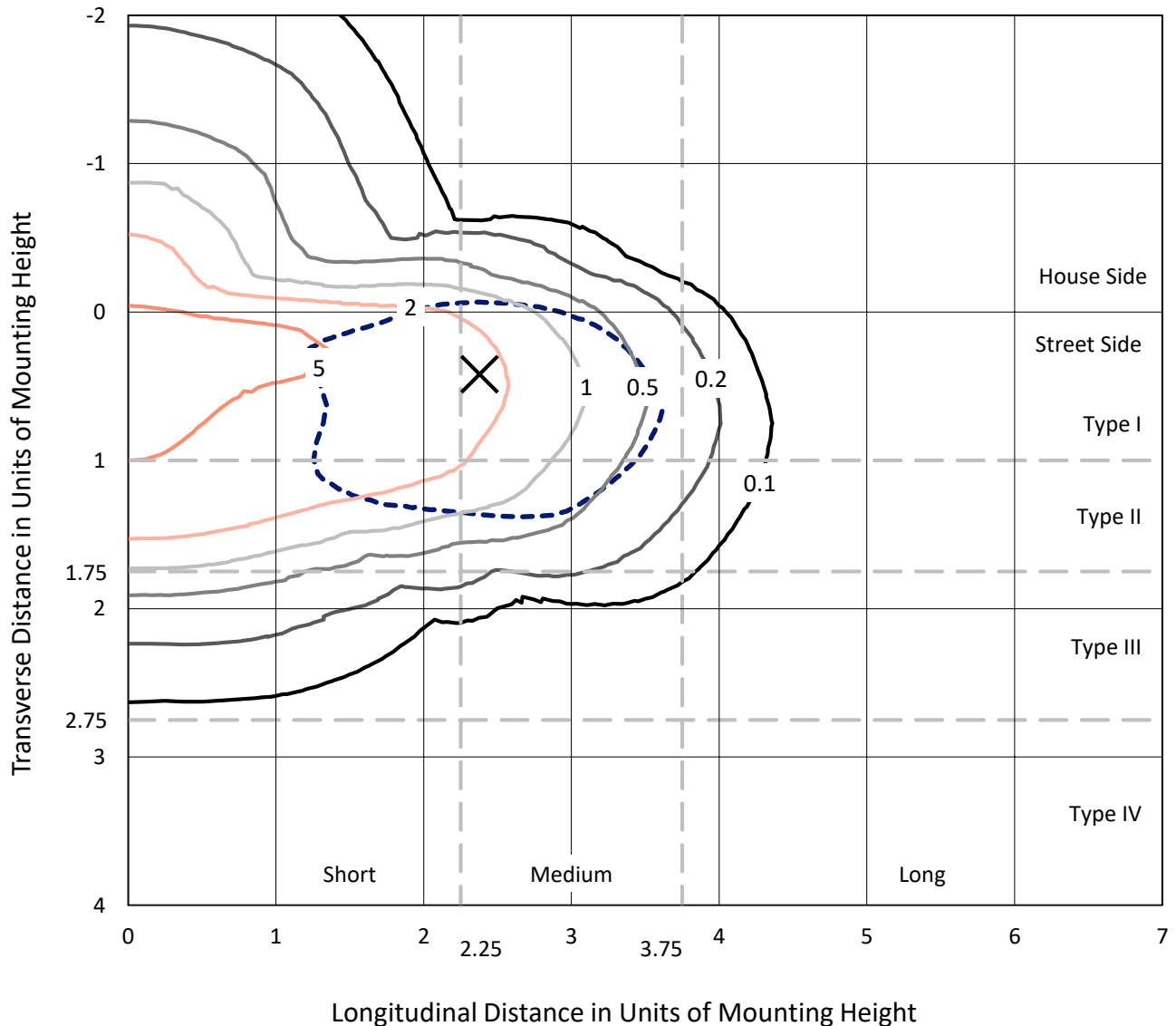
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

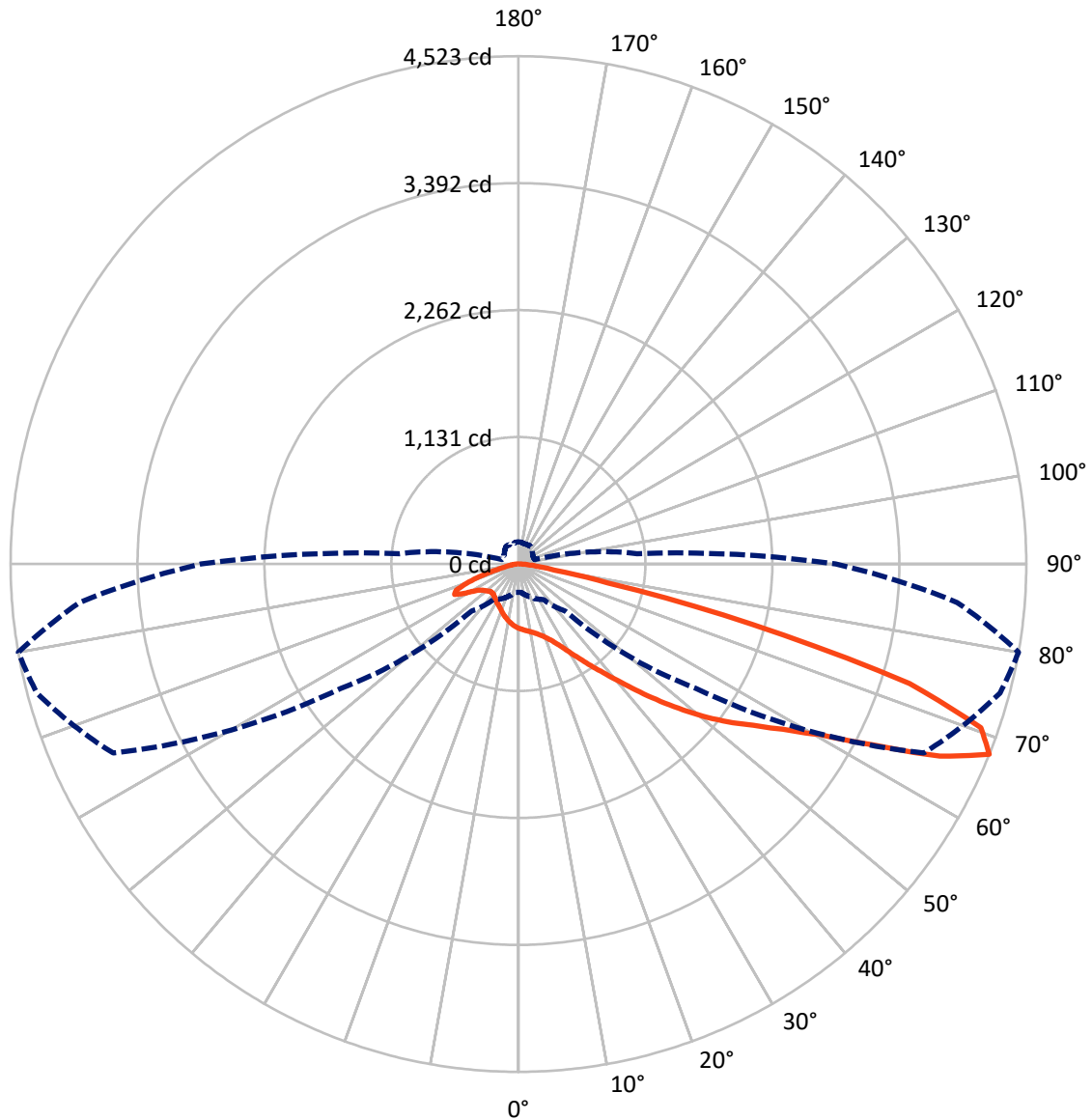
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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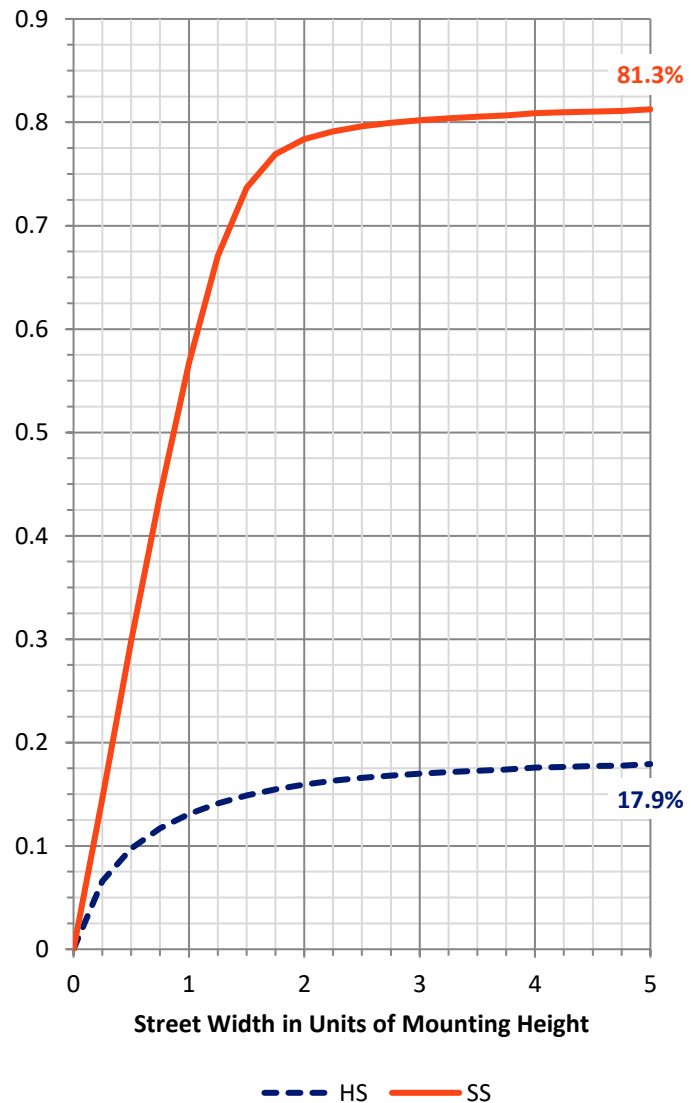
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	759.0	0.0	759.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	3362.4	0.0	3362.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	4121.5	0.0	4121.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	1.3
10°-20°	152.2	3.7
20°-30°	251.9	6.1
30°-40°	412.0	10.0
40°-50°	665.2	16.1
50°-60°	960.3	23.3
60°-70°	1059.7	25.7
70°-80°	488.5	11.9
80°-90°	79.0	1.9
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°	4121.5	100.0
0°-180°	4121.5	100.0



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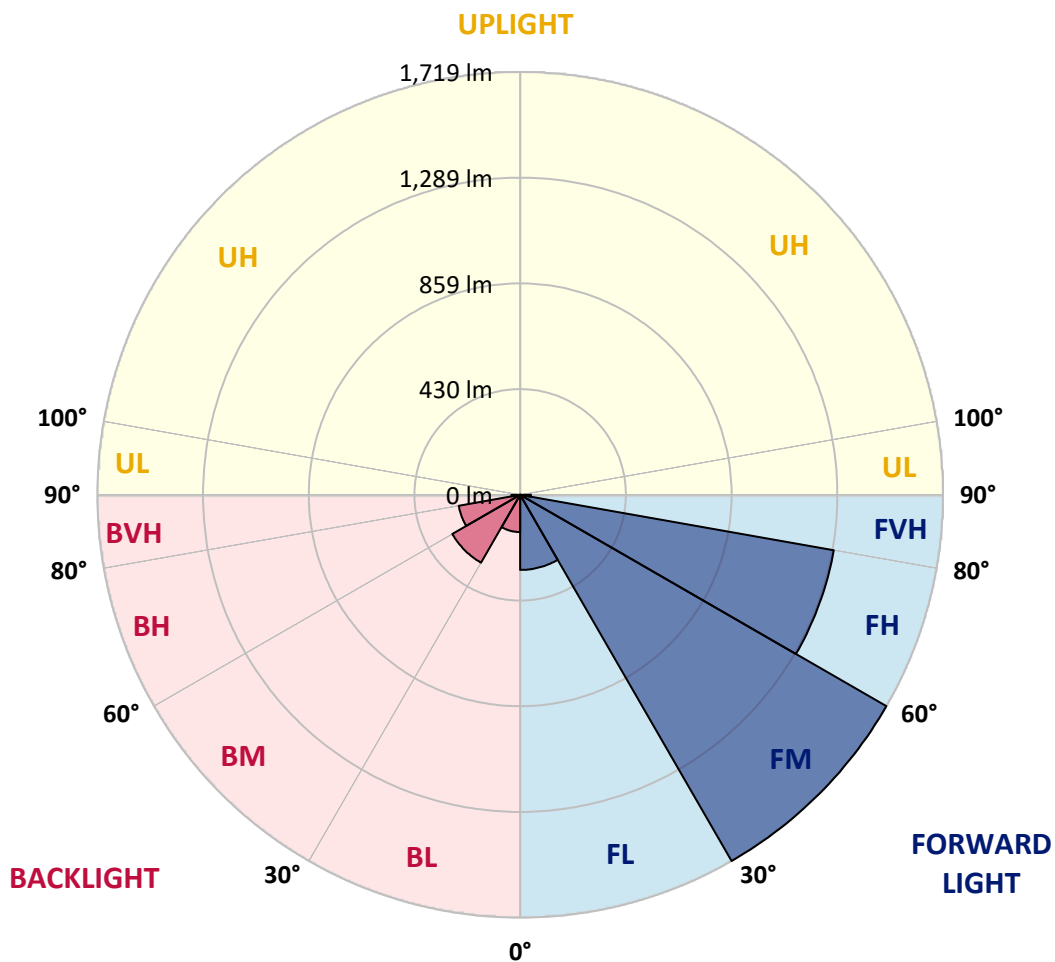
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	305.4	7.4			
FM	(30°-60°)	1719.0	41.7			
FH	(60°-80°)	1294.7	31.4			G1/1800
FVH	(80°-90°)	43.4	1.1			G1/100
BL	(0°-30°)	151.4	3.7	B1/500		
BM	(30°-60°)	318.5	7.7	B1/1000		
BH	(60°-80°)	253.6	6.2	B1/500		G1/500
BVH	(80°-90°)	35.6	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	572.5	572.5	572.5	572.5	572.5	572.5	572.5	572.5	572.5	572.5	572.5
2.5°	626.4	622.7	623.3	622.3	619.3	614.0	608.3	597.9	587.2	581.5	577.0
5°	678.7	677.7	676.3	673.0	665.3	654.4	640.8	622.5	602.8	592.5	582.6
7.5°	717.9	717.3	715.5	713.4	705.9	692.7	672.2	646.2	617.7	603.4	588.0
10°	721.1	722.1	723.5	729.1	730.1	722.9	702.1	670.5	633.1	614.8	595.2
12.5°	693.6	695.7	701.2	715.2	730.1	738.8	728.0	696.1	651.1	629.0	604.1
15°	657.0	658.2	664.9	684.1	710.7	737.8	747.9	724.4	674.4	647.2	617.5
17.5°	641.4	642.0	646.6	659.4	684.1	722.7	759.0	755.0	703.1	670.0	633.8
20°	633.5	634.8	641.6	654.2	669.8	703.5	760.7	788.1	737.1	698.4	654.6
22.5°	656.0	655.4	657.9	664.1	677.3	697.6	759.4	822.1	780.6	734.9	681.6
25°	708.5	710.7	706.6	699.4	703.7	717.9	766.0	859.1	834.9	781.7	716.9
27.5°	783.4	781.1	774.9	758.2	749.5	755.7	787.5	898.9	902.5	843.4	763.5
30°	858.1	856.2	850.2	829.9	812.0	806.9	829.3	944.5	983.1	917.5	820.7
32.5°	935.6	933.5	927.9	907.6	886.1	874.3	888.7	997.3	1078.0	1006.0	888.1
35°	1031.1	1027.2	1015.3	987.1	966.0	956.9	963.6	1063.7	1187.5	1110.7	969.9
37.5°	1121.1	1126.9	1114.7	1075.8	1048.4	1045.1	1052.6	1144.6	1305.7	1227.7	1063.9
40°	1211.4	1212.3	1201.4	1169.5	1141.3	1136.1	1154.9	1242.8	1445.1	1367.8	1178.0
42.5°	1304.7	1306.7	1288.2	1258.8	1238.1	1239.1	1260.7	1357.9	1605.0	1532.7	1309.6
45°	1415.3	1418.3	1398.0	1359.4	1340.6	1378.5	1369.6	1486.9	1780.2	1720.2	1460.5
47.5°	1530.9	1535.6	1520.1	1484.0	1460.5	1512.6	1478.6	1630.0	1969.0	1921.3	1626.3
50°	1594.0	1600.7	1615.8	1613.1	1608.0	1599.3	1600.1	1783.3	2163.5	2130.7	1796.7
52.5°	1560.1	1559.9	1614.7	1681.2	1752.3	1757.5	1748.2	1945.0	2345.3	2335.4	1957.2
55°	1405.1	1415.7	1498.6	1627.5	1821.5	1942.6	1970.2	2130.3	2523.9	2535.5	2120.2
57.5°	1147.0	1155.7	1267.7	1447.3	1728.2	2052.6	2285.9	2399.5	2723.6	2777.5	2337.0
60°	778.0	788.5	907.2	1122.9	1476.9	1991.3	2586.4	2880.0	2962.6	3085.3	2641.4
62.5°	457.2	466.7	563.4	708.3	1039.8	1706.6	2718.3	3563.6	3342.2	3549.7	3105.7
65°	314.7	321.2	368.3	440.9	597.5	1149.5	2554.7	4035.5	3926.4	4125.3	3644.0
67.5°	253.2	252.4	289.7	339.2	384.7	592.7	1931.8	3982.1	4440.1	4523.1	3923.3
70°	208.6	207.8	233.1	274.2	307.4	333.8	1052.2	3360.5	4335.5	4369.1	3666.1
72.5°	174.5	175.3	191.5	222.0	252.2	251.4	462.4	2364.0	3410.6	3643.5	2922.4
75°	147.3	147.7	158.5	179.9	204.7	202.5	250.8	1280.7	1982.6	2144.7	1619.9
77.5°	125.4	125.8	132.7	144.6	162.3	161.5	183.0	553.3	827.1	816.9	554.1
80°	111.8	111.8	115.1	117.2	127.1	123.4	135.7	265.8	349.6	322.8	221.2
82.5°	87.7	88.1	107.9	107.1	100.0	95.3	95.3	156.6	185.3	171.2	129.4
85°	49.3	49.1	69.6	84.0	88.1	67.2	66.6	87.7	100.9	88.9	62.7
87.5°	21.1	21.5	32.2	37.3	49.9	41.8	41.2	45.2	51.4	44.4	29.1
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°	572.5	572.5	572.5	572.5	572.5	572.5	572.5	572.5	572.5	572.5	572.5
2.5°	572.8	567.5	556.0	541.6	528.6	520.1	512.3	501.1	501.8	494.1	488.4
5°	572.3	561.4	534.7	502.8	472.2	450.0	433.4	418.4	414.7	407.6	403.3
7.5°	572.8	555.0	509.9	459.0	421.0	393.0	378.8	370.9	369.1	366.6	366.8
10°	574.2	549.0	482.7	418.0	378.2	359.8	356.3	358.7	361.6	362.4	362.6
12.5°	577.5	543.8	452.9	381.5	351.4	345.8	351.6	360.0	365.4	368.1	367.9
15°	584.7	539.7	424.3	352.8	336.7	339.6	350.6	362.4	370.3	374.0	374.2
17.5°	592.7	533.9	394.9	330.9	325.7	333.4	347.0	360.8	370.5	374.6	375.3
20°	603.0	526.5	364.0	314.5	315.3	324.1	336.9	350.6	361.4	364.8	366.4
22.5°	616.6	518.6	337.1	301.2	303.5	310.3	320.2	332.2	341.5	343.1	344.5
25°	634.8	510.1	315.5	289.0	289.9	293.8	300.5	307.6	314.0	312.3	313.6
27.5°	659.4	502.8	299.5	277.7	276.0	276.8	280.2	282.4	285.9	280.8	281.4
30°	688.2	494.9	287.1	268.0	263.0	261.6	262.4	263.6	266.2	259.3	258.3
32.5°	721.7	485.4	275.6	259.5	252.4	249.6	250.0	253.2	263.4	259.1	256.9
35°	760.7	474.5	263.4	250.2	245.3	241.2	240.8	251.0	281.2	278.5	276.6
37.5°	806.3	463.8	251.2	239.7	240.0	235.6	234.2	245.7	284.7	274.4	272.9
40°	864.4	458.2	240.8	228.4	233.5	232.9	230.1	236.0	262.0	243.1	240.6
42.5°	936.2	459.0	233.1	216.5	225.9	232.3	227.8	228.0	237.4	223.2	221.0
45°	1024.9	468.5	227.6	206.9	217.1	231.7	227.1	223.8	224.6	217.1	215.8
47.5°	1128.3	488.2	223.8	199.1	208.8	229.4	226.9	222.6	220.8	216.7	215.6
50°	1243.4	516.8	221.0	191.5	201.3	225.9	227.1	221.4	219.3	217.7	217.1
52.5°	1356.4	549.4	216.7	185.1	195.4	221.4	227.6	220.1	217.9	216.7	216.0
55°	1482.4	590.2	210.2	179.5	190.6	215.6	227.6	218.3	215.8	216.0	215.8
57.5°	1652.7	656.2	202.5	174.9	184.6	208.8	223.8	216.3	213.3	213.5	213.7
60°	1918.6	772.4	193.1	170.2	177.4	200.7	218.5	211.9	208.8	209.6	209.8
62.5°	2309.8	943.1	181.0	163.4	169.6	191.9	211.2	206.1	203.1	205.1	205.1
65°	2716.4	1093.6	166.0	154.6	161.5	182.4	202.1	199.1	196.0	200.7	200.5
67.5°	2825.8	1060.0	151.0	145.1	153.4	171.9	191.1	189.6	187.9	196.0	195.6
70°	2510.3	851.0	137.2	135.3	144.4	160.5	179.3	179.3	178.4	184.4	183.0
72.5°	1912.6	603.4	124.0	125.0	134.3	148.1	166.5	168.0	166.3	169.4	168.2
75°	1023.9	345.3	110.8	113.6	121.7	135.5	152.4	153.7	152.8	152.6	153.2
77.5°	340.2	168.8	97.0	101.5	108.5	122.5	137.6	139.8	137.4	137.0	136.8
80°	151.6	106.1	81.7	87.7	93.9	107.7	121.9	123.8	121.1	124.8	120.1
82.5°	97.4	69.8	65.6	72.0	78.2	92.9	106.3	106.7	104.3	121.1	103.3
85°	47.3	43.2	49.3	55.2	60.5	73.0	88.1	88.3	82.1	74.9	72.2
87.5°	23.5	25.2	32.8	38.2	40.8	50.1	64.1	62.9	60.3	54.8	50.5
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)