

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: P298915

Luminaire Tested: **GLNA-AF-01-LED-E1-T2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298915
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: GLNA-AF-01-LED-E1-T2-7027-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4278.2 lumens
Efficiency: N/A
Efficacy: 97.2 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): 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

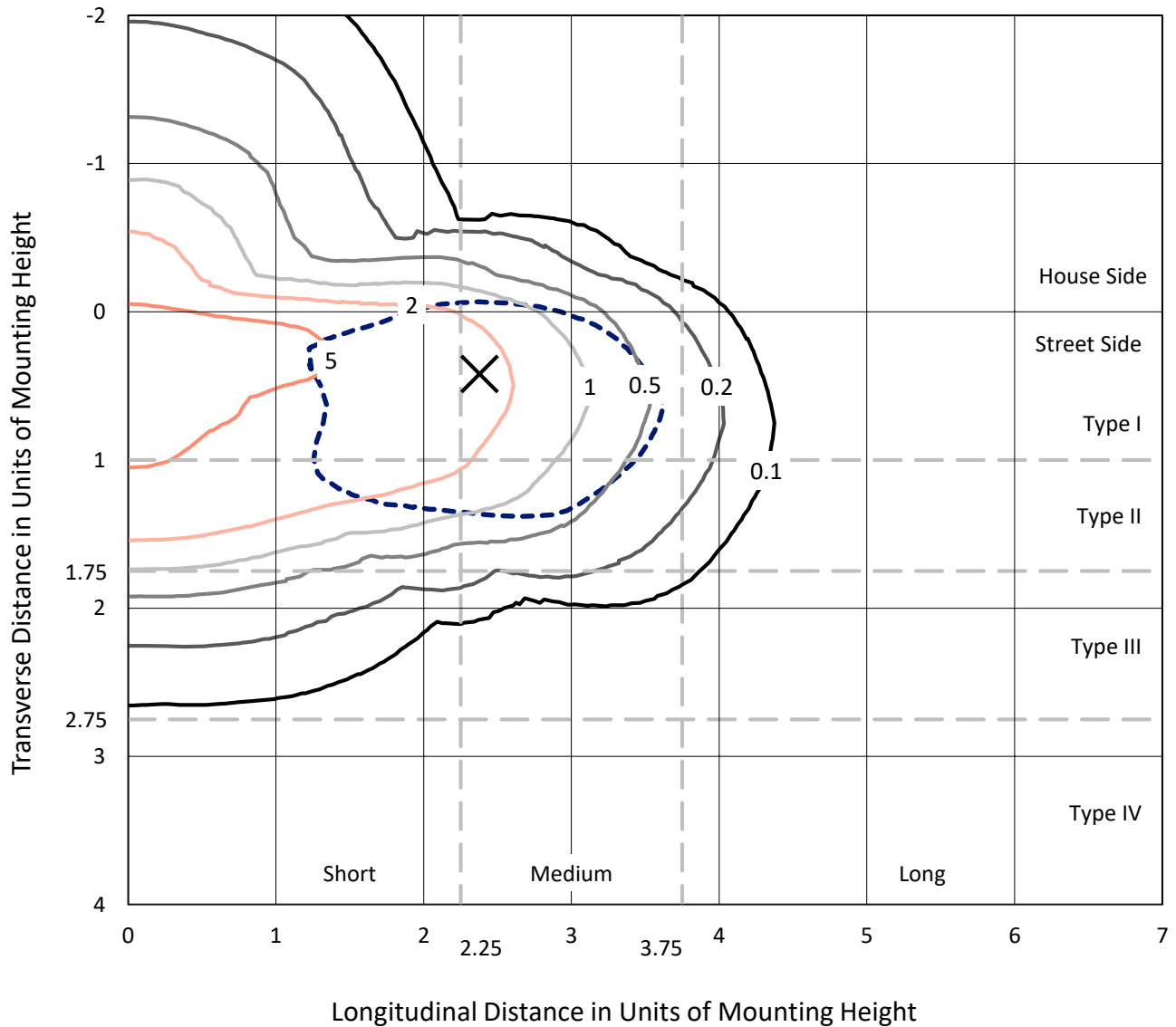


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Iso-Footcandle Lines of Horizontal Illumination

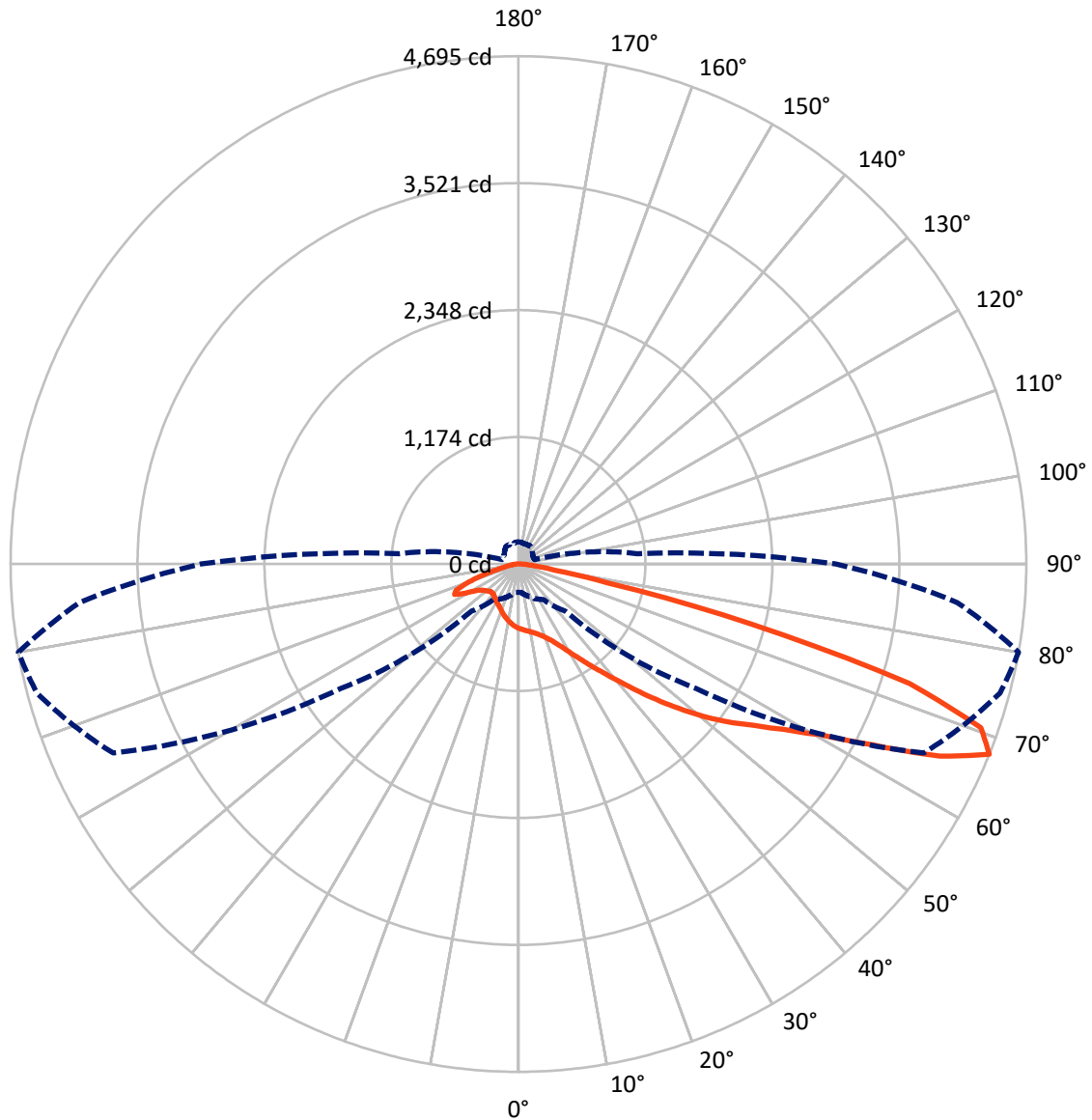
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 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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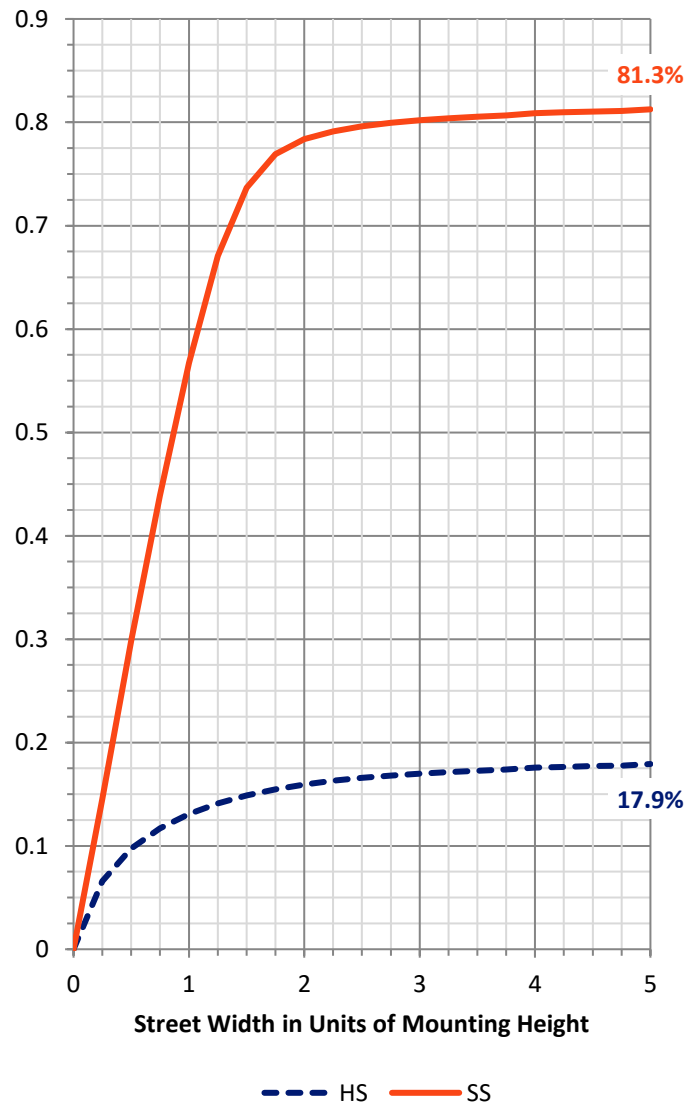
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	787.9	0.0	787.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	3490.3	0.0	3490.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	4278.2	0.0	4278.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	1.3
10°-20°	157.9	3.7
20°-30°	261.4	6.1
30°-40°	427.6	10.0
40°-50°	690.4	16.1
50°-60°	996.8	23.3
60°-70°	1100.0	25.7
70°-80°	507.1	11.9
80°-90°	82.0	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°	4278.2	100.0
0°-180°	4278.2	100.0



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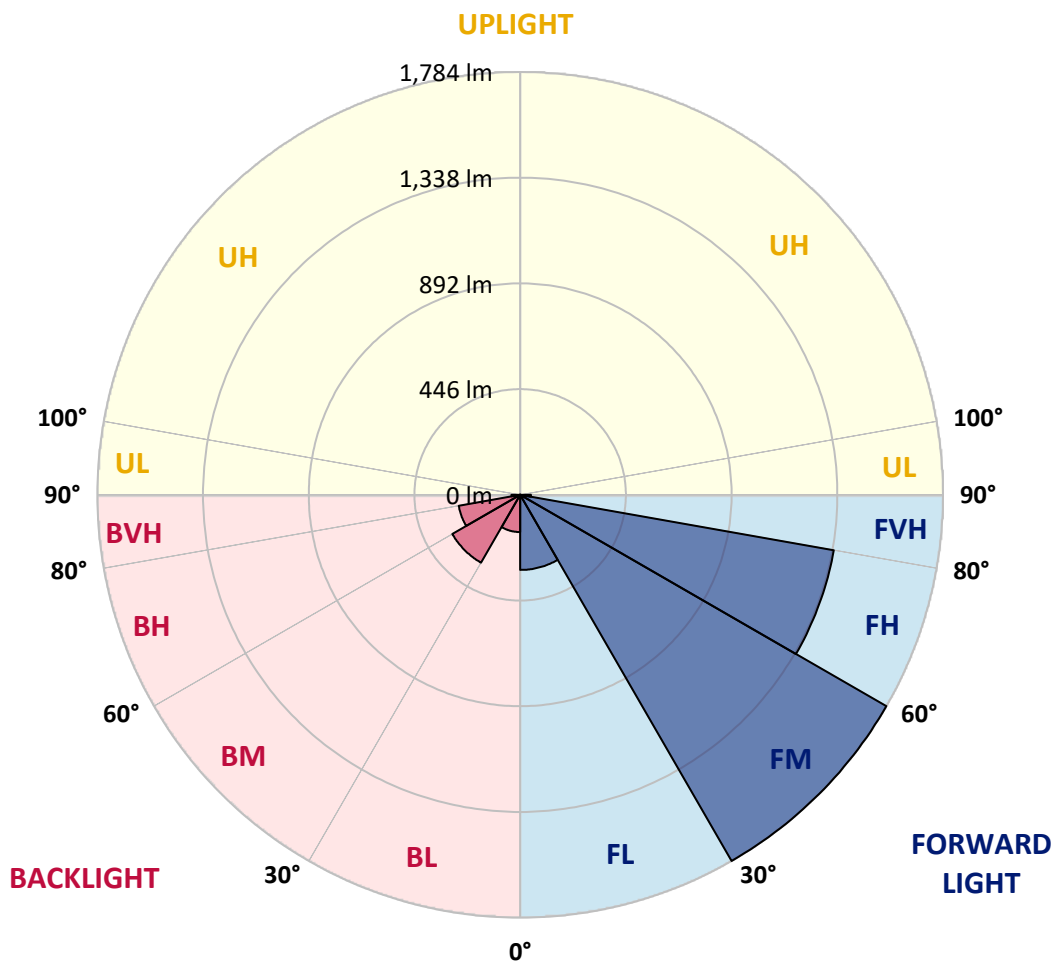
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	317.0	7.4			
FM (30°-60°)	1784.3	41.7			
FH (60°-80°)	1343.9	31.4			G1/1800
FVH (80°-90°)	45.1	1.1			G1/100
BL (0°-30°)	157.2	3.7	B1/500		
BM (30°-60°)	330.6	7.7	B1/1000		
BH (60°-80°)	263.2	6.2	B1/500		G1/500
BVH (80°-90°)	36.9	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°	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4
2.5°	650.2	646.4	647.0	646.0	642.8	637.3	631.4	620.7	609.5	603.6	599.0
5°	704.5	703.5	702.0	698.6	690.6	679.2	665.1	646.2	625.7	615.0	604.7
7.5°	745.2	744.5	742.6	740.5	732.7	719.0	697.8	670.8	641.1	626.4	610.4
10°	748.5	749.6	751.1	756.7	757.8	750.4	728.7	696.1	657.1	638.2	617.7
12.5°	719.9	722.2	727.9	742.4	757.8	766.9	755.7	722.6	675.9	652.9	627.0
15°	682.0	683.2	690.2	710.2	737.8	765.8	776.3	751.9	700.1	671.9	640.9
17.5°	665.8	666.4	671.2	684.5	710.2	750.2	787.9	783.7	729.8	695.5	658.0
20°	657.5	659.0	666.0	679.0	695.2	730.2	789.6	818.0	765.2	724.9	679.5
22.5°	680.9	680.3	682.8	689.4	703.0	724.1	788.3	853.4	810.2	762.9	707.5
25°	735.5	737.8	733.4	726.0	730.4	745.2	795.1	891.8	866.7	811.5	744.1
27.5°	813.2	810.9	804.3	787.1	778.0	784.3	817.4	933.0	936.8	875.5	792.6
30°	890.7	888.8	882.5	861.4	842.9	837.6	860.8	980.4	1020.4	952.4	851.9
32.5°	971.2	969.1	963.2	942.1	919.8	907.6	922.5	1035.2	1119.0	1044.2	921.9
35°	1070.4	1066.4	1053.9	1024.7	1002.8	993.3	1000.2	1104.1	1232.7	1152.9	1006.8
37.5°	1163.7	1169.8	1157.1	1116.7	1088.3	1084.9	1092.7	1188.1	1355.3	1274.4	1104.3
40°	1257.4	1258.4	1247.1	1214.0	1184.7	1179.2	1198.8	1290.0	1500.0	1419.8	1222.8
42.5°	1354.3	1356.4	1337.2	1306.7	1285.2	1286.2	1308.6	1409.5	1666.0	1591.0	1359.3
45°	1469.1	1472.2	1451.2	1411.1	1391.6	1430.9	1421.7	1543.4	1848.0	1785.6	1516.0
47.5°	1589.1	1594.0	1577.9	1540.5	1516.0	1570.2	1534.8	1691.9	2043.8	1994.3	1688.1
50°	1654.6	1661.6	1677.1	1674.4	1669.1	1660.1	1660.9	1851.1	2245.8	2211.7	1865.0
52.5°	1619.4	1619.2	1676.1	1745.2	1818.9	1824.4	1814.7	2019.0	2434.5	2424.2	2031.6
55°	1458.5	1469.5	1555.6	1689.4	1890.7	2016.5	2045.1	2211.3	2619.9	2631.9	2200.7
57.5°	1190.6	1199.7	1315.9	1502.3	1793.8	2130.6	2372.8	2490.8	2827.1	2883.1	2425.9
60°	807.5	818.5	941.7	1165.6	1533.1	2067.0	2684.7	2989.5	3075.2	3202.7	2741.8
62.5°	474.5	484.4	584.9	735.3	1079.4	1771.5	2821.6	3699.1	3469.3	3684.8	3223.7
65°	326.7	333.4	382.3	457.7	620.3	1193.1	2651.9	4189.0	4075.7	4282.1	3782.5
67.5°	262.9	262.0	300.8	352.2	399.3	615.2	2005.3	4133.6	4608.9	4695.1	4072.5
70°	216.5	215.7	242.0	284.5	319.1	346.5	1092.3	3488.2	4500.3	4535.2	3805.4
72.5°	181.1	182.0	198.8	230.4	261.8	261.0	480.0	2453.9	3540.3	3782.1	3033.5
75°	152.9	153.3	164.5	186.8	212.5	210.2	260.3	1329.4	2057.9	2226.2	1681.6
77.5°	130.2	130.6	137.7	150.2	168.5	167.7	190.0	574.4	858.5	847.9	575.2
80°	116.1	116.1	119.4	121.7	131.8	128.1	140.9	275.9	362.9	335.1	229.6
82.5°	91.0	91.4	112.0	111.2	103.8	99.0	99.0	162.6	192.3	177.8	134.4
85°	51.2	51.0	72.2	87.2	91.4	69.7	69.1	91.0	104.7	92.3	65.1
87.5°	21.9	22.3	33.5	38.8	51.8	43.4	42.8	47.0	53.3	46.1	30.1
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°	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4
2.5°	594.6	589.1	577.1	562.1	548.7	539.8	531.8	520.2	520.9	512.9	507.0
5°	594.2	582.8	555.0	521.9	490.1	467.1	449.9	434.3	430.5	423.1	418.7
7.5°	594.6	576.0	529.3	476.4	437.0	408.0	393.2	385.0	383.1	380.6	380.8
10°	596.0	569.9	501.1	433.9	392.6	373.4	369.8	372.4	375.3	376.2	376.4
12.5°	599.4	564.5	470.1	396.0	364.8	358.9	365.0	373.6	379.3	382.1	381.8
15°	607.0	560.2	440.4	366.3	349.4	352.6	363.9	376.2	384.4	388.2	388.4
17.5°	615.2	554.1	409.9	343.5	338.0	346.0	360.2	374.5	384.6	388.8	389.6
20°	626.0	546.6	377.8	326.5	327.3	336.4	349.6	363.9	375.1	378.7	380.4
22.5°	640.1	538.3	349.8	312.6	315.1	322.0	332.4	344.8	354.5	356.2	357.6
25°	659.0	529.5	327.5	299.9	301.0	305.0	311.9	319.3	326.0	324.1	325.6
27.5°	684.5	521.9	310.9	288.3	286.4	287.3	290.9	293.2	296.8	291.5	292.1
30°	714.4	513.7	298.0	278.2	273.0	271.5	272.3	273.6	276.3	269.2	268.1
32.5°	749.2	503.8	286.0	269.4	262.0	259.1	259.5	262.9	273.4	269.0	266.6
35°	789.6	492.6	273.4	259.7	254.6	250.4	250.0	260.5	291.9	289.2	287.1
37.5°	837.0	481.5	260.7	248.7	249.2	244.5	243.1	255.1	295.5	284.8	283.3
40°	897.2	475.6	250.0	237.2	242.4	241.8	238.8	244.9	271.9	252.3	249.8
42.5°	971.8	476.4	242.0	224.7	234.4	241.2	236.5	236.7	246.4	231.7	229.4
45°	1063.8	486.3	236.3	214.8	225.4	240.5	235.7	232.3	233.2	225.4	224.1
47.5°	1171.2	506.7	232.3	206.6	216.7	238.2	235.5	231.0	229.2	224.9	223.9
50°	1290.7	536.4	229.4	198.8	208.9	234.4	235.7	229.8	227.7	226.0	225.4
52.5°	1408.0	570.4	224.9	192.1	202.8	229.8	236.3	228.5	226.2	224.9	224.3
55°	1538.8	612.7	218.2	186.4	197.8	223.9	236.3	226.6	224.1	224.3	224.1
57.5°	1715.5	681.1	210.2	181.6	191.7	216.7	232.3	224.5	221.4	221.6	221.8
60°	1991.6	801.8	200.5	176.7	184.1	208.3	226.8	219.9	216.7	217.6	217.8
62.5°	2397.7	979.0	187.9	169.5	176.1	199.2	219.3	214.0	210.8	212.9	212.9
65°	2819.7	1135.2	172.3	160.5	167.7	189.3	209.8	206.6	203.5	208.3	208.1
67.5°	2933.3	1100.3	156.7	150.6	159.2	178.4	198.4	196.7	195.0	203.5	203.0
70°	2605.8	883.3	142.4	140.5	150.0	166.6	186.2	186.2	185.1	191.5	190.0
72.5°	1985.3	626.4	128.7	129.7	139.4	153.8	172.9	174.4	172.7	175.9	174.6
75°	1062.8	358.5	115.0	117.9	126.4	140.7	158.2	159.6	158.6	158.4	159.0
77.5°	353.2	175.2	100.7	105.3	112.7	127.2	142.8	145.1	142.6	142.2	142.0
80°	157.3	110.2	84.9	91.0	97.5	111.8	126.6	128.5	125.7	129.5	124.7
82.5°	101.1	72.5	68.0	74.8	81.1	96.5	110.4	110.8	108.3	125.7	107.2
85°	49.1	44.9	51.2	57.3	62.8	75.8	91.4	91.6	85.3	77.7	75.0
87.5°	24.4	26.1	34.1	39.6	42.3	52.0	66.6	65.3	62.6	56.9	52.4
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)