

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: P298975

Luminaire Tested: **GLNA-AF-01-LED-E1-T2-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298975
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-T2-7027-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3488.5 lumens
Efficiency: N/A
Efficacy: 102.6 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

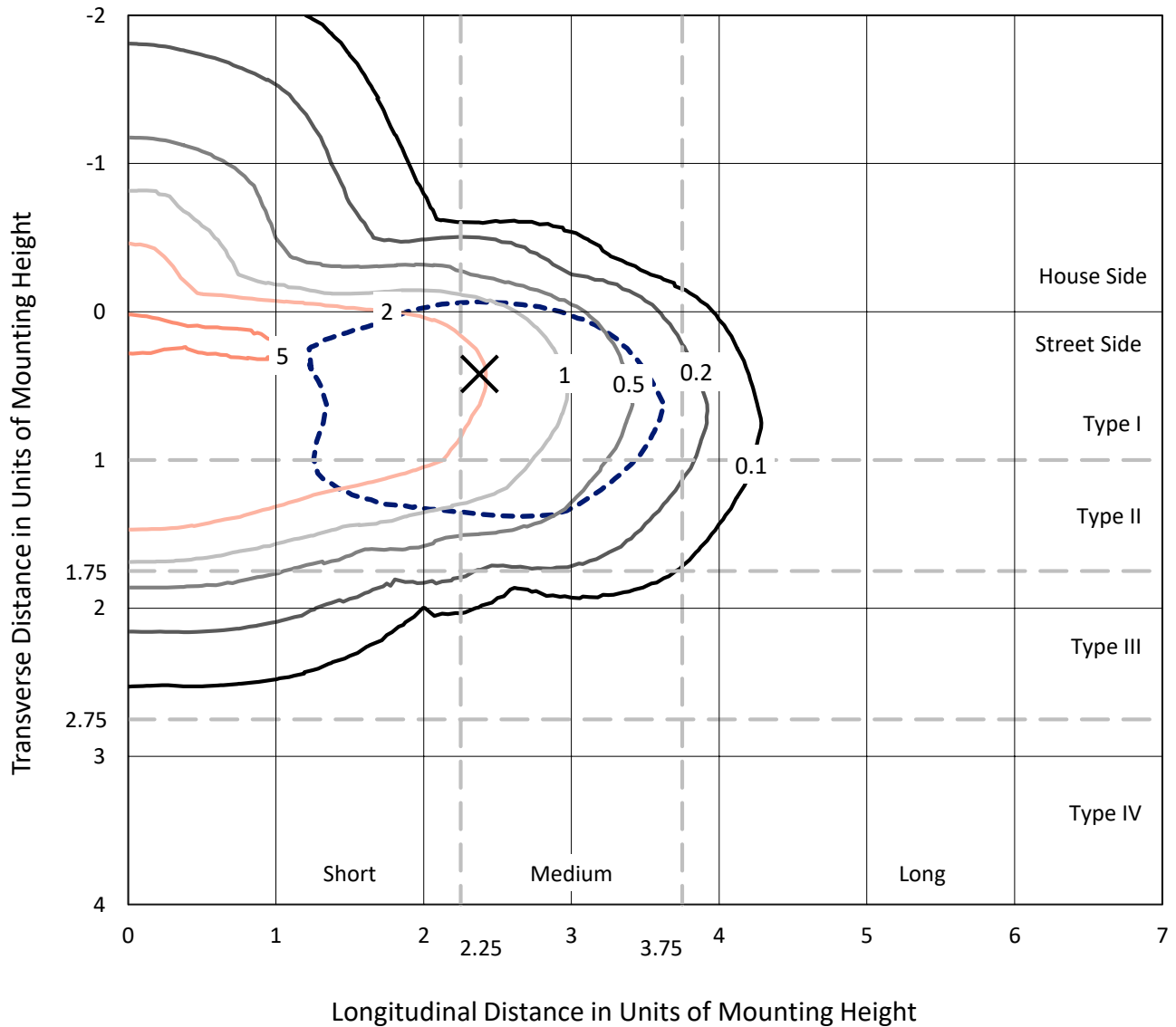
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

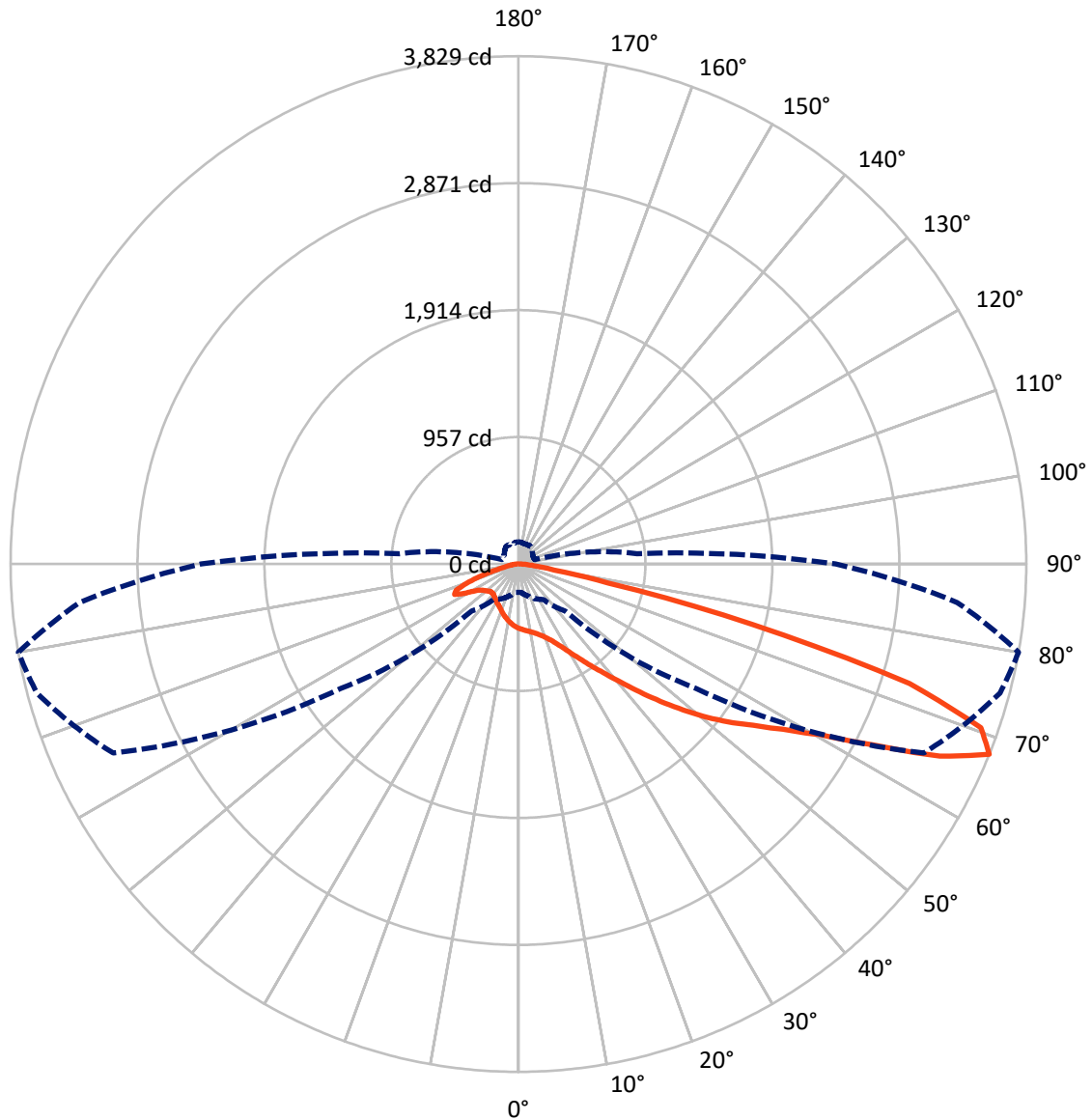


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Medium - Full Cutoff

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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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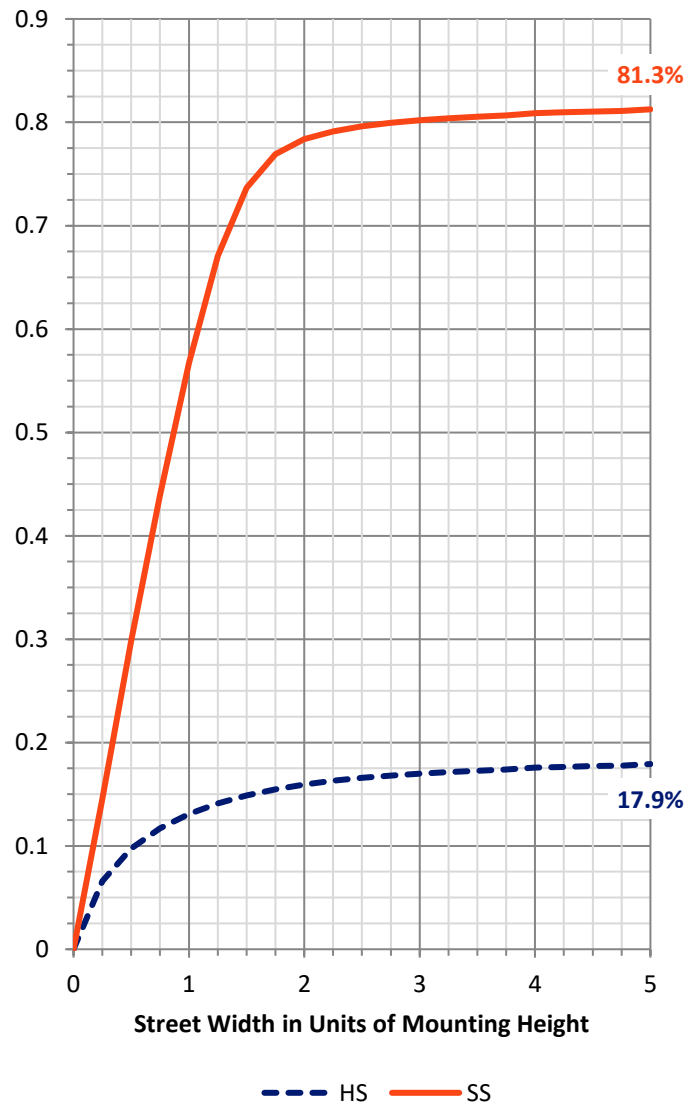
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	642.5	0.0	642.5
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	2846.1	0.0	2846.1
	% Fixture	81.6	0.0	81.6
Total	Lumens	3488.5	0.0	3488.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	1.3
10°-20°	128.8	3.7
20°-30°	213.2	6.1
30°-40°	348.7	10.0
40°-50°	563.0	16.1
50°-60°	812.8	23.3
60°-70°	897.0	25.7
70°-80°	413.5	11.9
80°-90°	66.9	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°	3488.5	100.0
0°-180°	3488.5	100.0



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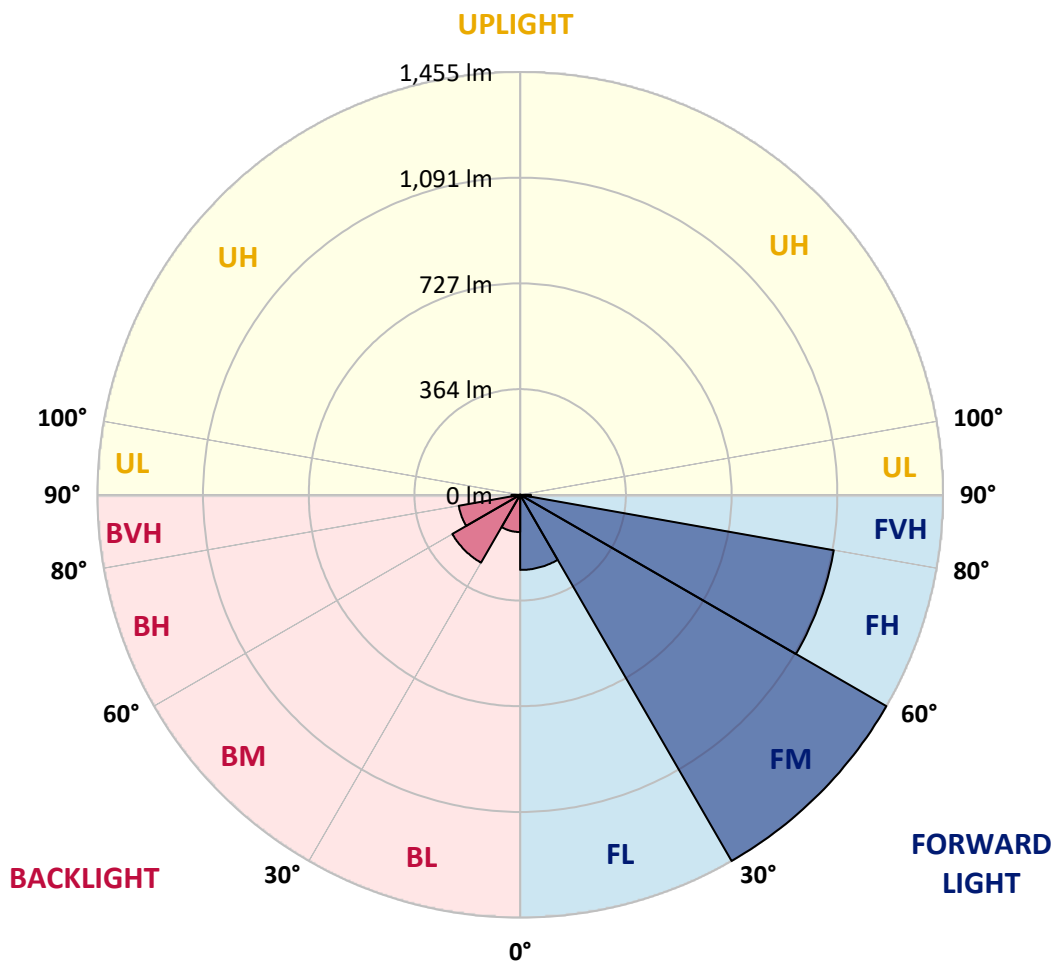
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	258.5	7.4			
FM	(30°-60°)	1455.0	41.7			
FH	(60°-80°)	1095.8	31.4			G1/1800
FVH	(80°-90°)	36.8	1.1			G1/100
BL	(0°-30°)	128.2	3.7	B1/500		
BM	(30°-60°)	269.5	7.7	B1/1000		
BH	(60°-80°)	214.6	6.2	B1/500		G1/500
BVH	(80°-90°)	30.1	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°	484.7	484.7	484.7	484.7	484.7	484.7	484.7	484.7	484.7	484.7	484.7
2.5°	530.2	527.1	527.6	526.7	524.2	519.7	514.9	506.1	497.0	492.2	488.4
5°	574.5	573.6	572.4	569.7	563.1	553.9	542.4	526.9	510.2	501.5	493.1
7.5°	607.6	607.1	605.6	603.8	597.5	586.3	569.0	547.0	522.8	510.8	497.7
10°	610.4	611.2	612.4	617.1	617.9	611.9	594.2	567.6	535.8	520.4	503.7
12.5°	587.0	588.9	593.5	605.4	617.9	625.3	616.2	589.2	551.1	532.4	511.3
15°	556.1	557.1	562.8	579.1	601.6	624.5	633.0	613.1	570.9	547.9	522.6
17.5°	542.9	543.4	547.3	558.2	579.1	611.7	642.5	639.1	595.1	567.1	536.5
20°	536.2	537.4	543.0	553.7	566.9	595.4	643.9	667.0	623.9	591.1	554.0
22.5°	555.2	554.7	556.8	562.1	573.3	590.4	642.8	695.9	660.7	622.1	576.9
25°	599.7	601.6	598.0	592.0	595.6	607.6	648.3	727.2	706.7	661.7	606.8
27.5°	663.1	661.2	655.9	641.8	634.4	639.6	666.5	760.8	763.9	713.9	646.3
30°	726.3	724.8	719.6	702.4	687.3	683.0	701.9	799.5	832.1	776.6	694.7
32.5°	791.9	790.2	785.4	768.2	750.0	740.0	752.2	844.1	912.5	851.5	751.7
35°	872.8	869.5	859.4	835.5	817.7	809.9	815.6	900.3	1005.2	940.1	820.9
37.5°	948.9	953.9	943.6	910.6	887.4	884.6	891.0	968.8	1105.2	1039.2	900.4
40°	1025.3	1026.2	1016.9	989.9	966.0	961.6	977.6	1051.9	1223.1	1157.7	997.1
42.5°	1104.3	1106.0	1090.4	1065.5	1048.0	1048.8	1067.0	1149.3	1358.5	1297.3	1108.4
45°	1197.9	1200.5	1183.3	1150.7	1134.7	1166.8	1159.3	1258.5	1506.9	1456.0	1236.2
47.5°	1295.8	1299.7	1286.7	1256.1	1236.2	1280.3	1251.5	1379.6	1666.6	1626.2	1376.5
50°	1349.2	1354.9	1367.6	1365.4	1361.1	1353.7	1354.4	1509.4	1831.3	1803.5	1520.8
52.5°	1320.5	1320.4	1366.7	1423.1	1483.2	1487.6	1479.7	1646.3	1985.2	1976.8	1656.6
55°	1189.3	1198.2	1268.5	1377.5	1541.7	1644.3	1667.6	1803.1	2136.3	2146.1	1794.5
57.5°	970.9	978.2	1073.0	1225.0	1462.7	1737.3	1934.8	2031.0	2305.3	2351.0	1978.1
60°	658.5	667.4	767.9	950.4	1250.1	1685.5	2189.2	2437.7	2507.6	2611.5	2235.7
62.5°	386.9	395.0	476.9	599.6	880.2	1444.5	2300.8	3016.3	2828.9	3004.6	2628.7
65°	266.4	271.9	311.7	373.2	505.8	972.9	2162.4	3415.8	3323.4	3491.7	3084.3
67.5°	214.3	213.6	245.2	287.2	325.6	501.7	1635.2	3370.6	3758.2	3828.5	3320.8
70°	176.6	175.9	197.3	232.0	260.2	282.5	890.7	2844.4	3669.6	3698.1	3103.0
72.5°	147.7	148.4	162.1	187.9	213.5	212.8	391.4	2001.0	2886.8	3084.0	2473.6
75°	124.7	125.0	134.1	152.3	173.3	171.4	212.3	1084.0	1678.1	1815.3	1371.2
77.5°	106.1	106.5	112.3	122.5	137.4	136.7	154.9	468.3	700.0	691.4	469.0
80°	94.6	94.6	97.4	99.3	107.5	104.4	114.9	225.0	295.9	273.2	187.2
82.5°	74.2	74.5	91.4	90.7	84.7	80.7	80.7	132.6	156.8	145.0	109.6
85°	41.7	41.6	58.9	71.1	74.5	56.8	56.3	74.2	85.4	75.2	53.1
87.5°	17.9	18.2	27.3	31.6	42.2	35.4	34.9	38.3	43.5	37.6	24.6
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°	484.7	484.7	484.7	484.7	484.7	484.7	484.7	484.7	484.7	484.7	484.7
2.5°	484.8	480.4	470.6	458.4	447.4	440.2	433.6	424.2	424.7	418.2	413.4
5°	484.5	475.2	452.5	425.6	399.6	380.9	366.8	354.1	351.0	345.0	341.4
7.5°	484.8	469.7	431.6	388.5	356.4	332.7	320.6	313.9	312.4	310.3	310.5
10°	486.0	464.7	408.6	353.8	320.1	304.5	301.6	303.6	306.0	306.7	306.9
12.5°	488.8	460.3	383.3	322.9	297.5	292.6	297.6	304.7	309.3	311.5	311.4
15°	495.0	456.8	359.1	298.7	284.9	287.5	296.8	306.7	313.4	316.5	316.7
17.5°	501.7	451.9	334.2	280.1	275.6	282.2	293.7	305.4	313.6	317.0	317.7
20°	510.4	445.7	308.1	266.2	266.9	274.3	285.1	296.8	305.9	308.8	310.2
22.5°	521.9	439.0	285.3	254.9	256.9	262.6	271.0	281.1	289.0	290.4	291.6
25°	537.4	431.8	267.1	244.6	245.4	248.7	254.4	260.4	265.9	264.3	265.5
27.5°	558.2	425.6	253.5	235.1	233.6	234.3	237.2	239.1	242.0	237.7	238.2
30°	582.5	418.9	243.0	226.9	222.6	221.4	222.1	223.1	225.3	219.5	218.6
32.5°	610.9	410.8	233.2	219.7	213.6	211.2	211.6	214.3	222.9	219.3	217.4
35°	643.9	401.7	222.9	211.8	207.6	204.2	203.9	212.4	238.0	235.8	234.1
37.5°	682.5	392.6	212.6	202.8	203.2	199.4	198.2	208.0	241.0	232.2	231.0
40°	731.6	387.8	203.9	193.4	197.7	197.2	194.8	199.7	221.7	205.7	203.7
42.5°	792.4	388.5	197.3	183.2	191.1	196.6	192.9	193.0	200.9	188.9	187.0
45°	867.5	396.6	192.7	175.2	183.8	196.1	192.2	189.4	190.1	183.8	182.7
47.5°	955.1	413.2	189.4	168.5	176.7	194.2	192.0	188.4	186.9	183.4	182.6
50°	1052.4	437.4	187.0	162.1	170.4	191.1	192.2	187.4	185.7	184.3	183.8
52.5°	1148.1	465.1	183.4	156.6	165.4	187.4	192.7	186.3	184.5	183.4	182.9
55°	1254.7	499.6	177.9	152.0	161.3	182.6	192.7	184.8	182.7	182.9	182.7
57.5°	1398.8	555.4	171.4	148.0	156.3	176.7	189.4	183.1	180.5	180.7	180.8
60°	1624.0	653.8	163.5	144.1	150.1	169.9	185.0	179.3	176.7	177.4	177.6
62.5°	1955.1	798.3	153.2	138.3	143.6	162.5	178.8	174.5	171.9	173.6	173.6
65°	2299.3	925.7	140.5	130.9	136.7	154.4	171.1	168.5	165.9	169.9	169.7
67.5°	2391.9	897.2	127.8	122.8	129.8	145.5	161.8	160.4	159.0	165.9	165.6
70°	2124.8	720.3	116.1	114.6	122.3	135.8	151.8	151.8	151.0	156.1	154.9
72.5°	1618.8	510.8	104.9	105.8	113.7	125.4	141.0	142.2	140.8	143.4	142.4
75°	866.6	292.3	93.8	96.2	103.0	114.7	129.0	130.2	129.3	129.2	129.7
77.5°	288.0	142.9	82.1	85.9	91.9	103.7	116.4	118.3	116.3	115.9	115.8
80°	128.3	89.8	69.2	74.2	79.5	91.2	103.2	104.8	102.5	105.6	101.7
82.5°	82.4	59.1	55.5	61.0	66.1	78.7	90.0	90.3	88.3	102.5	87.4
85°	40.0	36.6	41.7	46.7	51.2	61.8	74.5	74.7	69.6	63.4	61.1
87.5°	19.9	21.3	27.8	32.3	34.5	42.4	54.3	53.2	51.0	46.4	42.8
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)