

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: P450359

Luminaire Tested: **GALN-SA1A-827-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3481 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

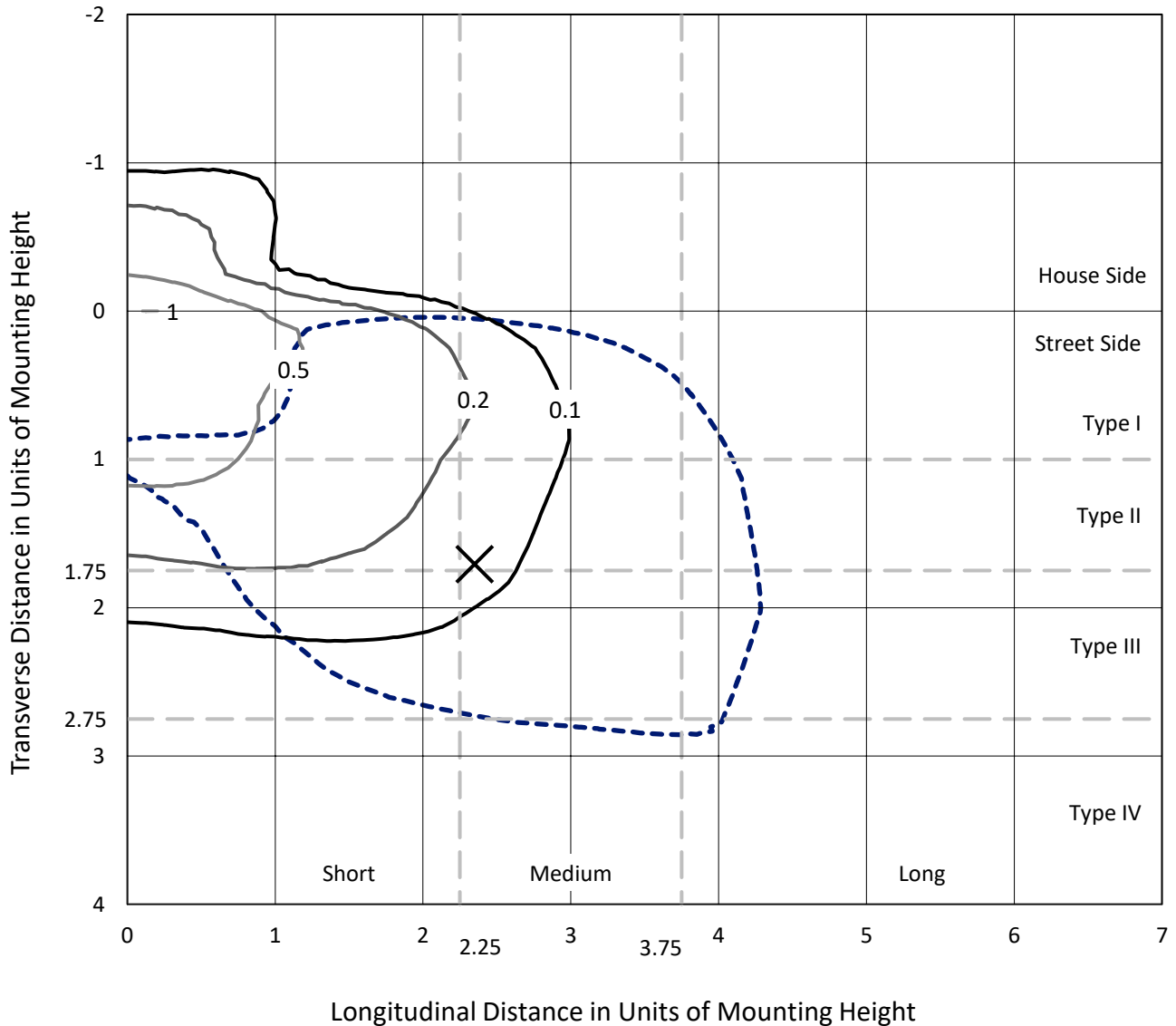
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

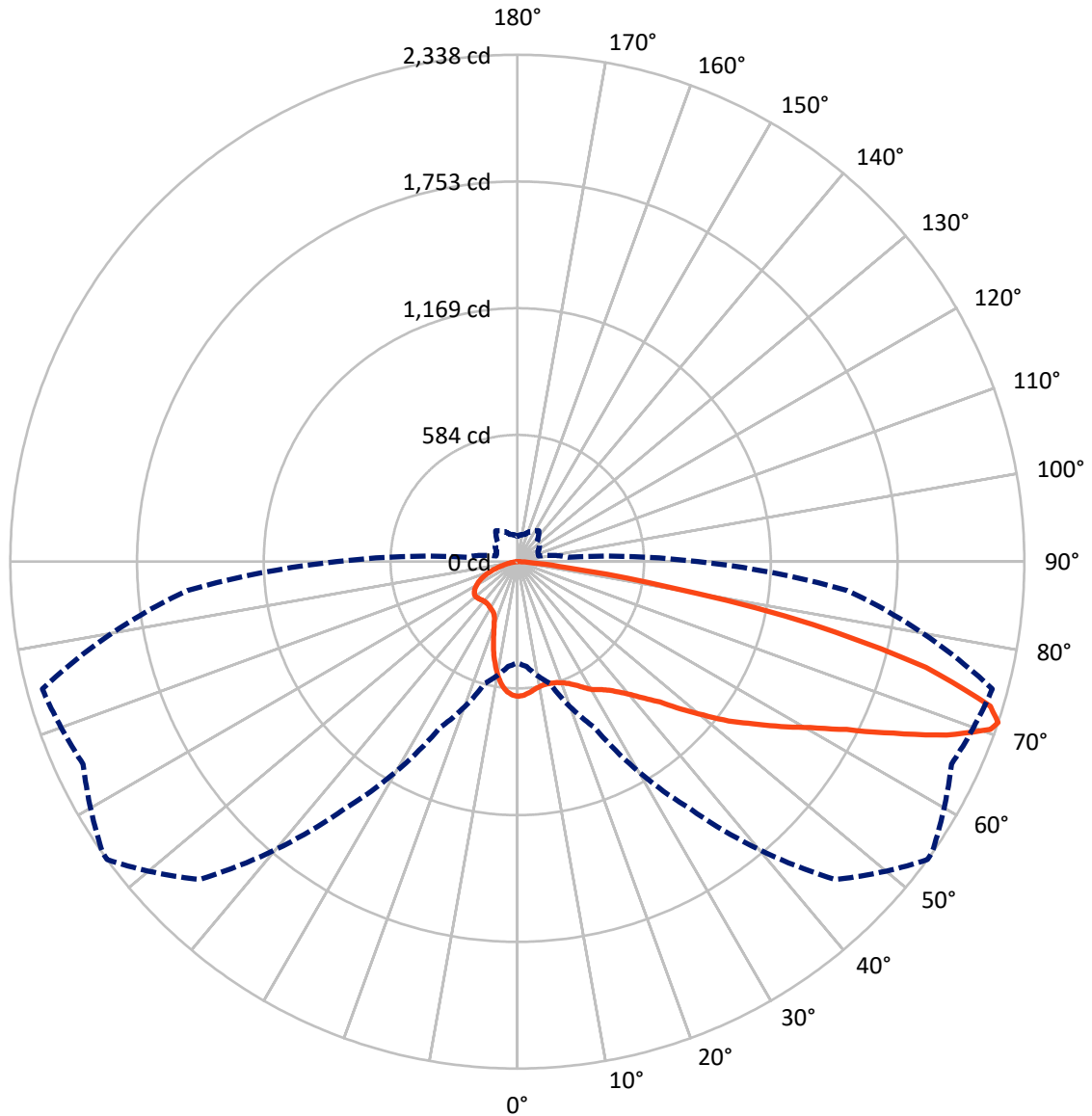
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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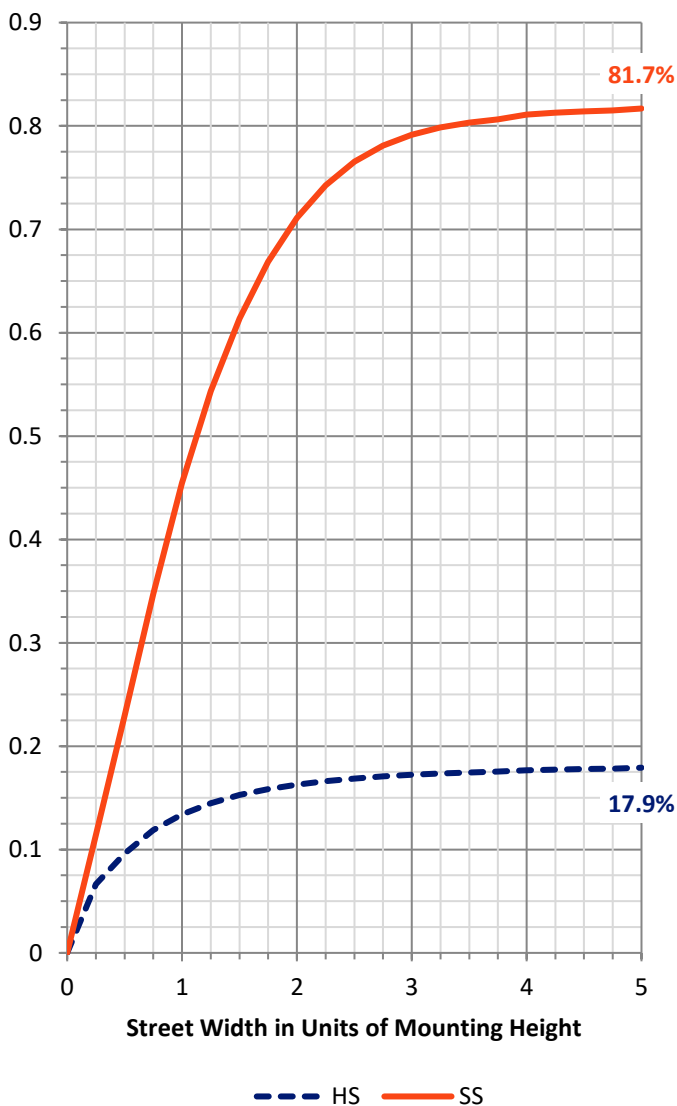
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	628.5	0.0	628.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	2852.5	0.0	2852.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	3481.0	0.0	3481.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	1.6
10°-20°	146.1	4.2
20°-30°	243.3	7.0
30°-40°	359.8	10.3
40°-50°	506.8	14.6
50°-60°	678.6	19.5
60°-70°	855.4	24.6
70°-80°	584.2	16.8
80°-90°	51.4	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°	3481.0	100.0
0°-180°	3481.0	100.0



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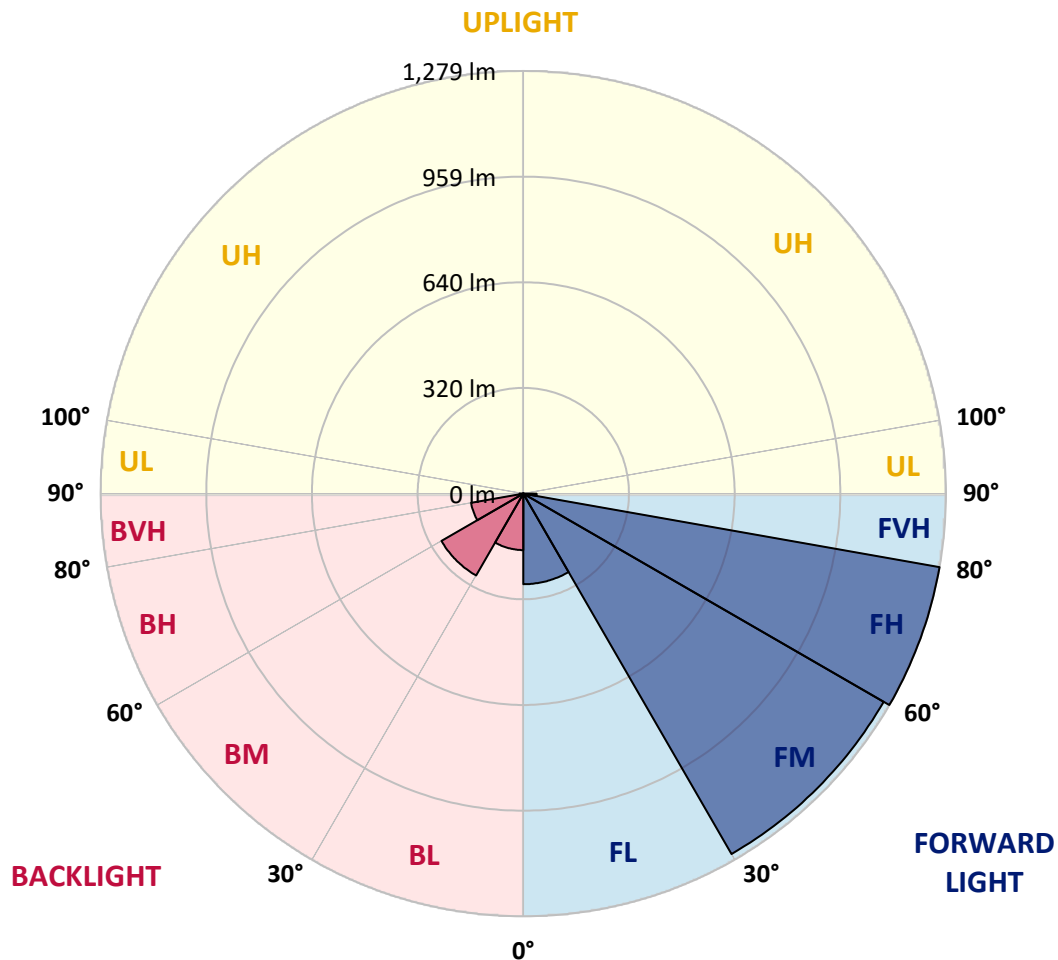
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	274.0	7.9			
FM (30°-60°)	1259.3	36.2			
FH (60°-80°)	1279.1	36.7			G1/1800
FVH (80°-90°)	40.2	1.2			G1/100
BL (0°-30°)	170.8	4.9	B1/500		
BM (30°-60°)	285.9	8.2	B1/1000		
BH (60°-80°)	160.5	4.6	B1/500		G1/500
BVH (80°-90°)	11.2	0.3			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1
2.5°	600.0	602.8	603.6	605.5	609.4	612.6	615.8	615.4	619.9	621.8	623.5
5°	573.3	574.1	576.9	580.6	587.6	596.4	605.1	605.3	616.4	625.2	629.5
7.5°	553.7	556.2	558.1	562.0	569.4	578.9	592.7	593.8	613.5	631.0	640.2
10°	541.0	543.8	545.9	550.7	558.1	568.8	583.6	585.7	611.5	640.2	656.4
12.5°	529.3	532.1	534.0	540.4	550.0	563.1	579.9	582.3	612.2	651.0	674.1
15°	536.4	538.7	538.0	539.8	546.2	561.3	581.4	583.8	615.0	661.3	691.6
17.5°	568.2	570.1	563.9	556.8	553.7	564.8	586.1	588.7	620.7	672.0	709.4
20°	615.0	620.1	606.6	590.6	576.1	577.6	595.9	598.7	628.6	682.7	727.7
22.5°	676.0	679.7	663.2	636.9	610.2	596.4	610.5	612.2	640.4	696.6	747.6
25°	747.6	749.9	726.9	693.1	654.5	628.6	630.7	633.7	660.0	712.4	765.3
27.5°	817.2	824.3	797.8	756.4	705.7	662.4	658.3	660.2	681.2	721.3	777.5
30°	899.7	899.2	871.1	823.2	758.1	699.3	684.4	684.1	692.7	725.6	786.3
32.5°	965.5	973.2	945.8	893.5	818.1	737.5	702.5	701.7	701.5	733.1	799.5
35°	1040.4	1041.5	1016.3	963.7	883.0	785.4	727.7	723.9	719.6	749.3	817.4
37.5°	1107.3	1112.6	1089.4	1030.4	946.7	835.2	762.3	759.8	746.7	777.3	845.9
40°	1159.6	1163.5	1149.6	1093.4	1009.5	889.0	806.3	801.8	785.8	823.2	884.1
42.5°	1176.7	1184.8	1190.2	1162.6	1081.7	952.7	860.4	854.8	842.6	892.8	928.1
45°	1178.0	1190.8	1219.6	1220.9	1154.3	1029.1	923.6	919.7	918.7	981.9	990.0
47.5°	1168.0	1181.0	1229.3	1255.5	1219.0	1106.2	1014.8	1008.6	1009.2	1092.1	1059.4
50°	1144.0	1159.4	1218.1	1277.7	1269.6	1186.3	1111.1	1109.0	1120.7	1217.9	1131.4
52.5°	1098.7	1117.3	1206.4	1291.6	1307.2	1255.3	1220.5	1214.7	1244.2	1354.4	1210.2
55°	973.2	1001.3	1163.7	1299.3	1342.9	1321.3	1319.0	1329.6	1368.7	1503.3	1296.8
57.5°	907.8	928.9	1071.0	1300.6	1388.0	1398.0	1434.1	1436.7	1505.2	1661.4	1394.8
60°	872.1	890.7	1020.2	1292.0	1451.0	1493.0	1551.8	1561.2	1638.5	1832.7	1496.3
62.5°	840.9	856.9	989.8	1262.1	1522.1	1633.8	1704.3	1708.8	1789.9	2021.9	1596.6
65°	767.3	785.6	928.5	1232.2	1583.4	1809.8	1906.6	1901.4	1951.0	2185.1	1659.4
67.5°	668.3	691.4	814.0	1128.9	1613.7	2002.1	2134.5	2127.9	2110.1	2292.1	1677.4
70°	541.7	554.1	667.5	950.5	1492.8	2103.1	2314.5	2307.5	2208.6	2306.2	1592.0
71°	466.1	485.5	581.2	844.3	1392.2	2072.3	2337.6	2335.7	2208.8	2267.3	1527.7
72.5°	363.8	375.7	460.3	654.2	1183.3	1897.0	2280.4	2287.6	2160.8	2159.1	1395.2
75°	230.1	235.4	288.8	385.1	649.3	1343.5	1946.7	1966.0	1918.7	1767.3	1037.5
77.5°	133.7	140.5	173.0	227.0	280.5	729.2	1392.9	1414.0	1333.1	973.1	424.8
80°	77.8	85.4	113.9	131.8	128.8	270.6	709.2	745.2	577.3	245.8	119.2
82.5°	43.2	48.3	80.1	80.3	68.6	88.4	223.2	233.5	164.7	99.1	48.7
85°	31.4	35.5	51.7	46.8	32.9	38.0	77.7	81.4	66.6	41.7	15.8
87.5°	11.1	15.8	28.4	22.6	9.0	7.9	22.4	18.2	16.9	11.7	3.6
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°	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1	621.1
2.5°	624.4	624.8	622.9	619.6	616.2	611.8	607.0	603.2	601.5	601.3	601.1
5°	631.2	632.2	625.0	614.5	602.8	588.5	576.3	562.4	558.8	553.2	554.9
7.5°	642.1	641.6	627.5	605.1	577.8	547.5	522.0	507.1	491.7	487.4	487.6
10°	657.7	654.2	627.5	585.9	540.4	495.5	459.7	437.2	424.9	414.8	411.0
12.5°	674.3	665.2	621.4	559.0	492.3	437.2	398.8	368.4	360.5	352.2	352.4
15°	690.1	675.0	609.6	521.2	440.4	374.9	337.7	319.5	317.0	318.0	317.8
17.5°	704.4	682.0	591.5	479.1	379.8	321.5	301.8	303.1	309.7	314.4	314.9
20°	718.8	686.1	564.7	422.7	322.7	289.2	289.9	300.3	310.2	316.6	317.6
22.5°	732.6	688.0	533.1	368.2	281.3	275.5	286.6	297.7	307.4	313.6	314.6
25°	741.6	683.7	488.3	311.2	261.0	270.6	282.2	291.6	299.9	306.3	307.8
27.5°	744.0	669.8	432.8	265.1	251.6	265.9	276.6	283.5	289.9	296.0	297.1
30°	742.7	649.3	371.9	238.0	246.1	260.4	268.7	273.8	281.5	286.2	287.1
32.5°	740.6	625.4	308.4	223.6	241.6	255.3	260.2	264.7	264.6	262.7	264.0
35°	741.4	596.8	256.8	214.9	237.7	251.6	255.7	250.1	233.9	233.2	232.4
37.5°	745.3	568.6	219.4	208.9	235.6	251.0	253.3	227.3	213.0	206.5	204.8
40°	755.5	535.7	194.8	204.4	235.4	255.3	242.2	215.9	188.4	175.6	174.7
42.5°	769.0	503.4	179.8	201.6	237.7	261.9	237.7	199.7	169.8	162.3	161.1
45°	789.2	466.3	171.5	200.3	241.1	264.4	236.2	187.8	162.3	156.3	156.3
47.5°	811.9	431.0	167.0	199.3	245.4	262.7	222.8	184.1	158.7	159.4	163.0
50°	834.5	400.3	163.6	197.2	249.1	261.7	217.4	183.9	159.6	169.2	175.6
52.5°	860.6	378.7	159.4	193.9	249.1	255.7	215.7	187.7	162.3	165.1	167.9
55°	892.2	371.9	154.2	186.5	244.6	240.7	214.7	193.1	164.1	157.6	158.7
57.5°	933.9	382.8	149.1	177.3	234.3	225.1	214.4	194.6	159.8	154.4	153.2
60°	982.5	404.5	147.6	167.9	220.2	211.7	212.1	190.3	153.8	148.2	149.1
62.5°	1016.5	417.4	146.7	160.8	204.8	197.1	206.6	185.0	151.2	146.3	147.2
65°	1016.5	401.6	138.0	149.9	184.8	179.4	200.1	178.4	147.8	142.2	141.2
67.5°	977.9	355.6	124.9	133.5	162.8	159.3	190.9	170.5	142.7	138.4	136.1
70°	877.5	269.6	108.3	114.3	135.0	138.2	179.0	159.8	134.3	129.0	125.6
71°	833.3	234.8	101.3	104.5	124.3	129.0	173.4	155.3	130.5	123.0	117.0
72.5°	748.2	197.8	90.8	92.1	106.2	114.7	161.5	146.7	123.3	112.6	105.9
75°	568.4	144.4	73.1	72.4	78.6	91.0	136.7	130.7	108.1	93.6	89.7
77.5°	245.6	78.6	54.7	55.3	53.4	69.0	107.6	112.3	92.7	76.2	72.6
80°	74.5	45.3	37.4	38.2	35.7	46.3	75.8	88.0	74.5	59.2	54.3
82.5°	38.2	27.1	25.6	25.2	22.8	26.1	45.9	60.2	53.2	37.0	32.7
85°	16.5	14.5	12.6	12.2	10.7	9.4	16.4	30.1	28.2	20.7	19.7
87.5°	4.1	3.8	2.4	2.3	1.3	0.2	0.0	0.0	0.0	0.0	0.0
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)