

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: P450385

Luminaire Tested: **GALN-SA1A-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2700 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 33
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: 24 FT



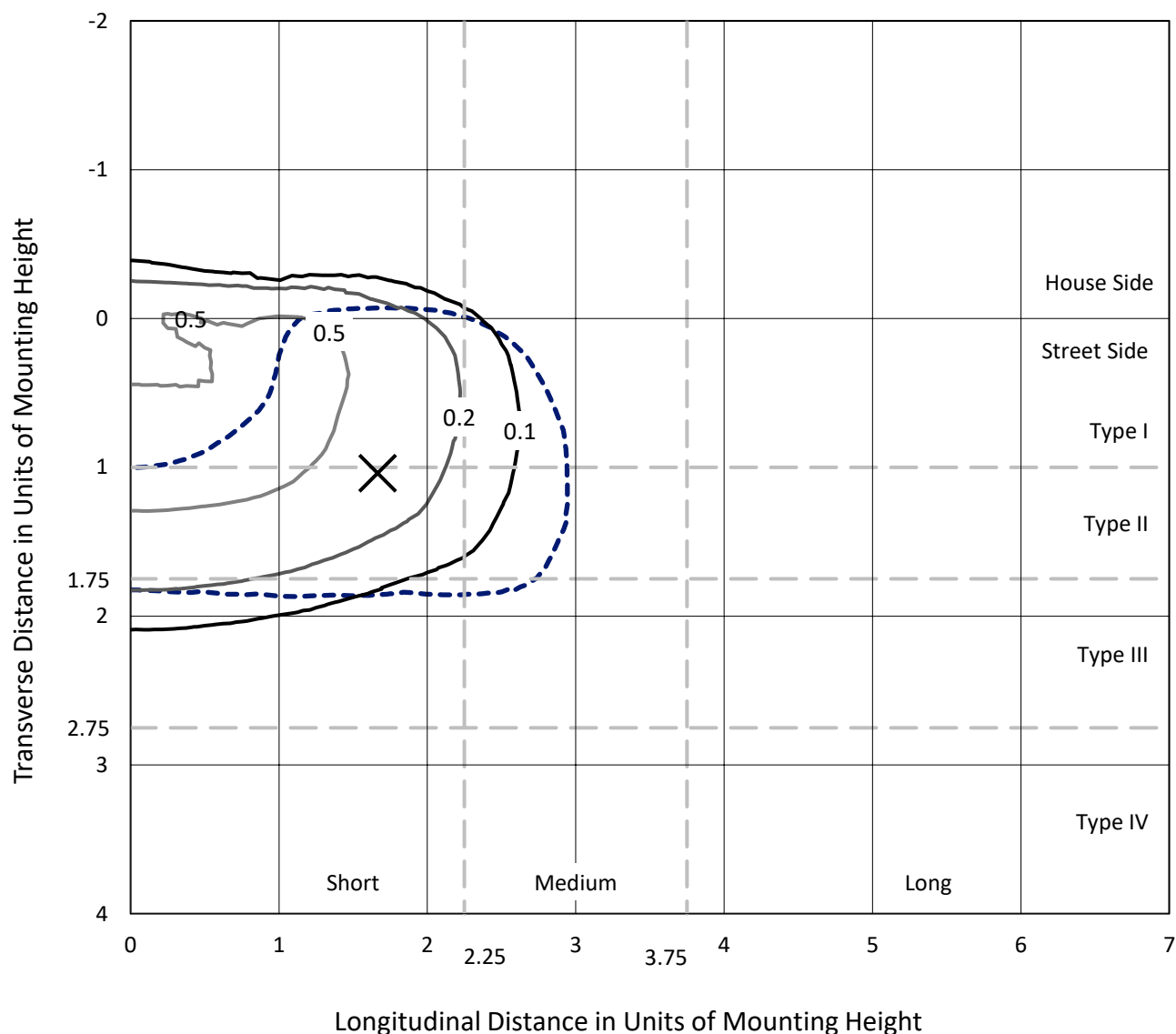
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

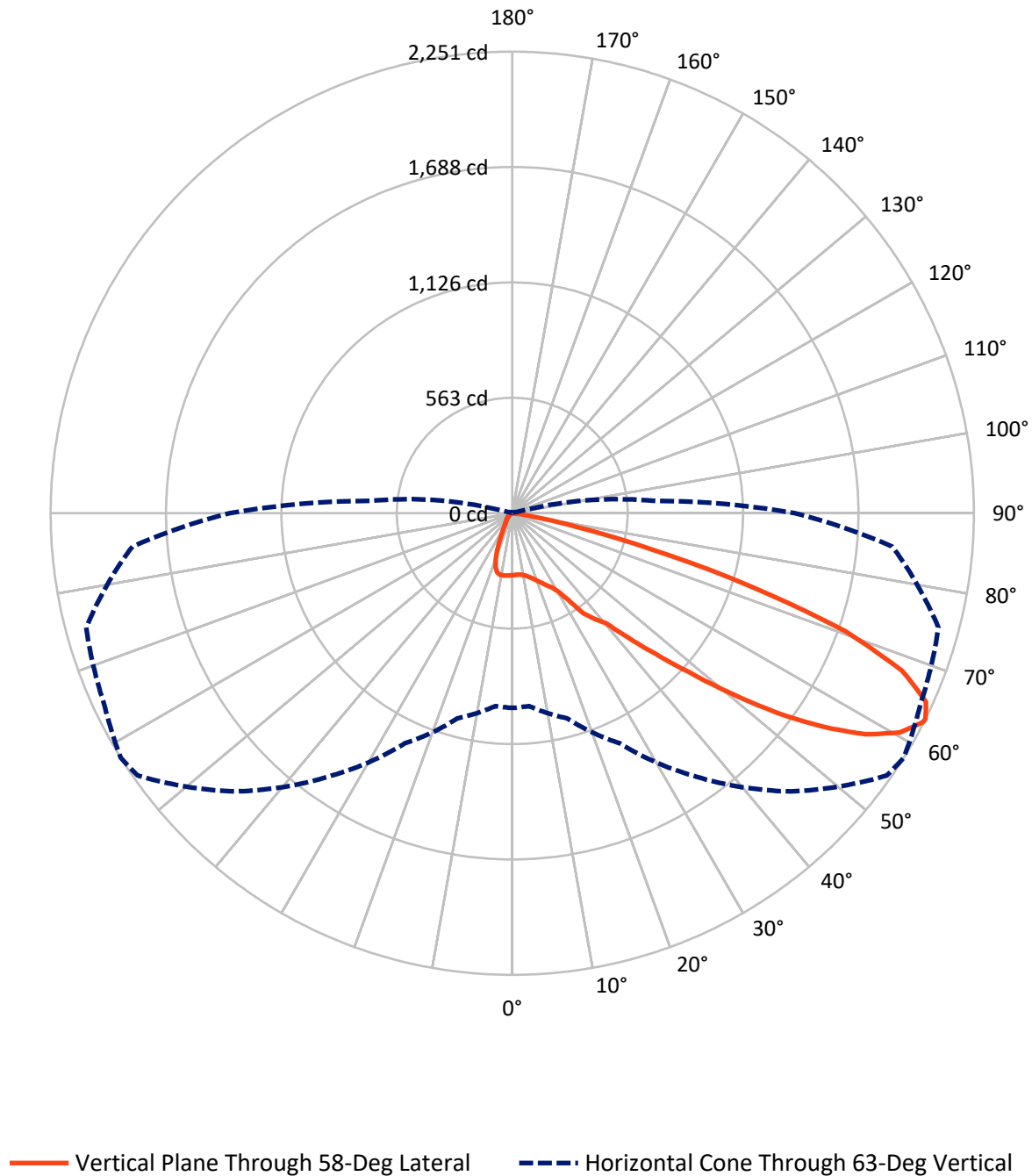


Based on 25 foot mounting height. Maximum calculated value = 0.7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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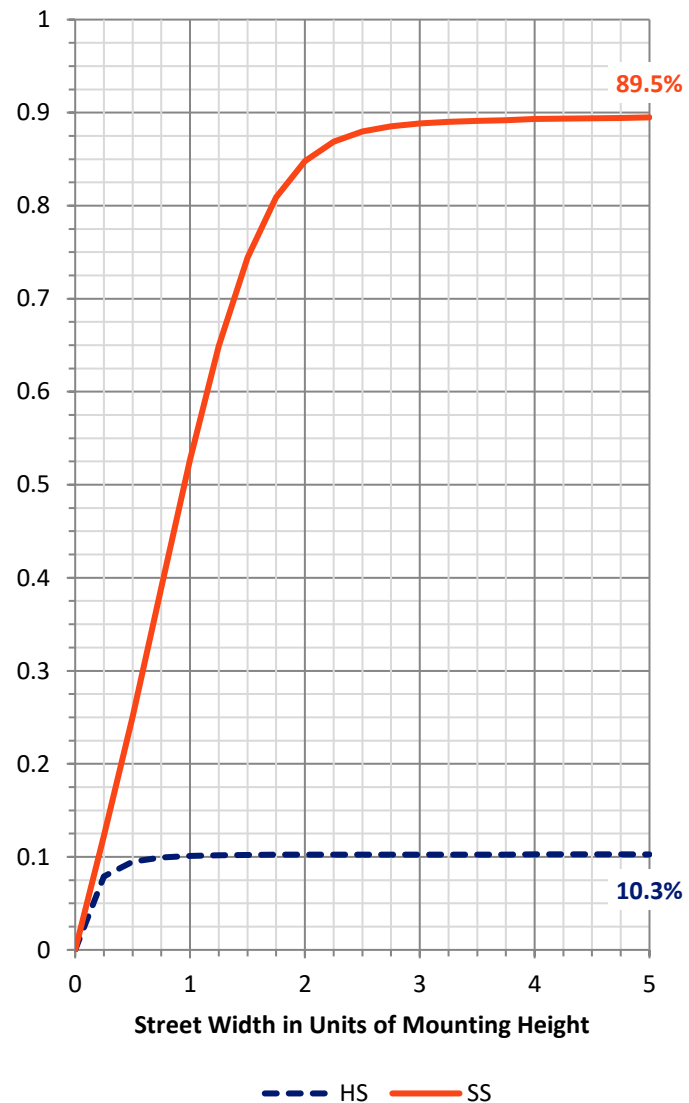
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	279.6	0.0	279.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	2420.4	0.0	2420.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	2700.0	0.0	2700.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.3	1.0
10°-20°	77.1	2.9
20°-30°	133.8	5.0
30°-40°	245.8	9.1
40°-50°	462.7	17.1
50°-60°	791.4	29.3
60°-70°	757.8	28.1
70°-80°	193.2	7.2
80°-90°	9.9	0.4
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°	2700.0	100.0
0°-180°	2700.0	100.0

Coefficient of Utilization



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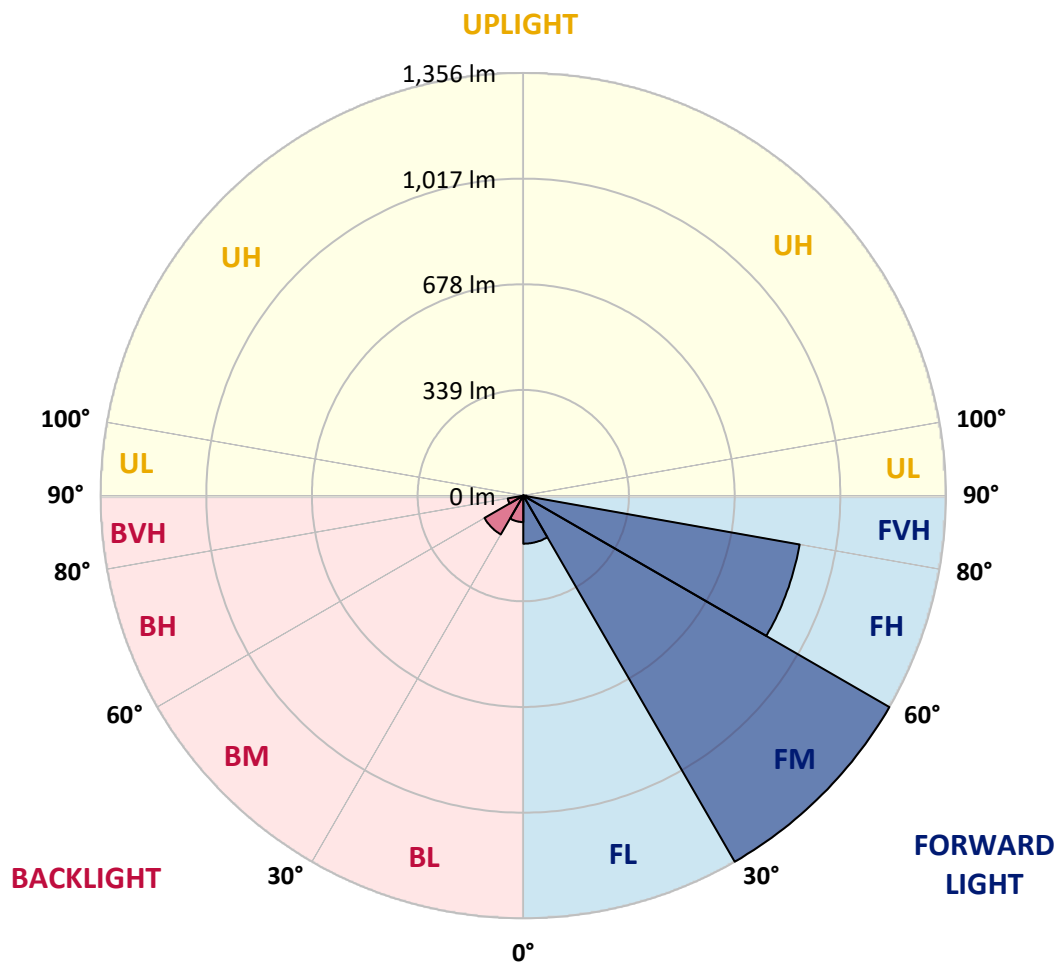
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	154.3	5.7			
FM	(30°-60°)	1356.2	50.2			
FH	(60°-80°)	900.4	33.3			G1/1800
FVH	(80°-90°)	9.5	0.4			G0/10
BL	(0°-30°)	84.8	3.1	B0/110		
BM	(30°-60°)	143.8	5.3	B0/220		
BH	(60°-80°)	50.6	1.9	B0/110		G0/110
BVH	(80°-90°)	0.4	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°	58°	65°	75°	85°
0°	302.3	302.3	302.3	302.3	302.3	302.3	302.3	302.3	302.3	302.3	302.3
2.5°	294.8	295.8	296.8	297.2	298.6	300.0	301.1	300.9	302.5	303.3	303.3
5°	283.0	283.0	285.6	288.0	292.1	296.2	300.0	300.9	303.9	306.7	307.8
7.5°	273.0	273.6	275.6	280.1	285.6	292.7	300.4	302.3	307.6	313.9	316.5
10°	268.3	268.7	271.4	276.1	283.0	292.7	303.5	307.0	315.1	325.0	328.7
12.5°	267.3	267.9	270.6	275.8	283.8	295.6	310.2	313.9	325.7	338.5	343.9
15°	269.1	269.5	272.2	277.9	286.6	300.6	319.1	324.2	338.3	353.1	360.2
17.5°	275.6	275.2	277.1	281.7	291.5	307.0	329.9	336.0	352.5	372.8	377.5
20°	303.3	300.6	299.0	295.0	298.8	315.9	342.9	351.9	372.2	392.9	396.2
22.5°	362.9	357.0	345.4	329.5	317.3	328.1	358.6	369.0	395.2	415.5	415.5
25°	438.7	431.2	419.6	385.0	355.1	348.2	376.3	389.3	420.2	440.7	434.0
27.5°	533.6	527.7	505.1	464.9	419.2	383.4	396.8	408.8	442.3	467.1	453.1
30°	610.9	608.0	589.5	553.5	503.1	450.9	435.0	442.9	471.8	500.5	486.0
32.5°	676.1	676.1	657.2	623.7	576.5	530.2	499.9	505.6	533.2	566.3	539.5
35°	747.9	745.4	730.2	698.3	645.4	604.6	592.2	599.9	624.9	649.5	583.4
37.5°	823.3	822.5	806.6	775.7	732.6	681.2	652.1	654.2	667.0	682.0	634.8
40°	905.2	906.4	885.7	866.6	825.9	773.3	717.6	704.8	716.8	759.2	729.8
42.5°	1002.0	999.1	990.2	964.2	931.4	899.9	833.0	828.4	838.9	884.5	852.6
45°	1114.4	1118.4	1103.0	1088.6	1066.6	1040.4	984.5	976.3	987.9	1058.7	1013.3
47.5°	1227.0	1223.1	1233.1	1230.4	1242.2	1222.7	1173.3	1156.7	1184.5	1251.6	1184.9
50°	1312.8	1317.0	1337.8	1368.1	1418.7	1429.7	1382.3	1376.6	1389.0	1432.1	1338.4
52.5°	1368.5	1382.7	1415.2	1493.1	1584.4	1655.3	1619.3	1616.3	1611.2	1622.8	1485.2
55°	1404.9	1419.3	1461.8	1576.4	1733.6	1848.8	1850.6	1837.6	1804.1	1795.8	1622.4
57.5°	1382.5	1385.3	1445.9	1599.2	1816.3	1986.8	2046.6	2033.6	1971.6	1940.1	1743.5
60°	1242.6	1248.5	1332.9	1513.0	1780.3	2032.0	2176.5	2170.6	2102.7	2067.1	1837.8
62.5°	994.8	1011.9	1098.7	1299.6	1613.0	1955.9	2229.2	2245.8	2193.0	2144.0	1867.5
63°	949.3	943.8	1035.5	1237.4	1568.7	1918.3	2230.0	2251.1	2197.0	2151.3	1859.4
65°	702.7	719.2	778.8	975.7	1305.5	1743.3	2179.8	2217.2	2182.0	2119.0	1769.3
67.5°	394.6	393.8	459.6	638.5	913.7	1367.5	1971.0	2050.1	2042.7	1901.5	1466.7
70°	193.1	196.2	223.2	330.9	529.9	943.4	1637.8	1723.2	1725.8	1493.5	1014.2
72.5°	87.4	88.8	108.1	161.2	272.4	502.3	1128.6	1210.1	1195.1	951.8	560.0
75°	46.1	49.2	59.6	81.1	131.3	207.1	613.9	692.8	661.3	434.8	206.1
77.5°	34.2	35.2	40.5	51.6	70.3	80.7	264.9	315.1	295.2	157.3	68.3
80°	25.0	25.8	30.1	36.6	44.3	41.1	99.8	114.4	102.7	53.5	20.9
82.5°	15.2	15.4	22.0	27.2	27.8	23.0	32.9	35.4	37.0	30.1	11.4
85°	5.5	6.9	14.8	19.7	16.5	11.6	13.8	15.2	16.7	19.1	6.7
87.5°	0.6	0.8	7.1	9.6	4.7	4.3	5.1	5.7	6.1	7.1	3.3
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°	302.3	302.3	302.3	302.3	302.3	302.3	302.3	302.3	302.3	302.3	302.3
2.5°	304.1	304.9	304.3	303.3	303.1	302.5	301.3	301.3	301.3	301.7	301.3
5°	308.6	309.2	307.8	305.7	303.5	300.6	297.6	295.8	295.6	295.2	294.1
7.5°	317.1	317.9	314.7	309.8	303.7	296.8	290.3	284.2	281.3	279.1	279.1
10°	329.5	330.3	323.8	315.1	302.9	288.9	273.4	259.4	248.4	243.3	242.1
12.5°	344.4	344.8	334.0	318.7	298.6	271.6	238.6	208.0	186.6	176.9	175.8
15°	360.6	357.8	343.5	320.2	286.4	236.0	179.1	141.5	119.3	112.8	115.3
17.5°	377.1	371.8	350.9	317.9	259.0	179.1	120.3	96.6	89.6	87.8	87.8
20°	392.5	385.2	356.1	308.2	211.4	123.4	89.2	83.5	82.3	81.1	81.3
22.5°	408.0	396.8	360.8	286.4	157.5	88.2	79.9	78.1	76.4	74.8	74.6
25°	423.0	407.6	362.6	246.2	107.3	75.8	73.0	70.5	67.3	65.5	65.0
27.5°	438.7	420.6	361.4	195.4	78.3	67.9	65.0	61.6	57.7	54.5	54.5
30°	468.8	445.4	357.2	140.5	65.9	59.8	56.1	50.6	46.3	43.1	42.9
32.5°	509.8	477.7	342.5	98.8	58.5	52.6	47.2	41.1	36.6	34.2	34.2
35°	546.4	510.2	315.1	72.8	52.6	45.7	39.0	33.1	29.7	28.1	27.4
37.5°	602.1	557.8	277.3	59.2	47.0	39.6	32.7	27.2	24.4	23.2	23.2
40°	685.7	615.9	230.9	51.8	41.5	33.7	27.2	23.0	20.7	19.3	19.3
42.5°	789.3	687.1	184.0	46.6	36.4	29.1	22.8	19.5	17.5	16.5	16.3
45°	919.8	762.1	141.7	41.7	32.3	24.8	19.3	16.5	14.4	13.8	14.0
47.5°	1056.0	828.2	109.8	37.4	28.1	20.9	16.5	14.2	12.8	12.0	12.0
50°	1172.3	873.7	83.3	32.5	24.8	17.7	14.4	12.8	11.6	11.2	11.0
52.5°	1269.5	886.9	63.8	28.3	21.8	15.2	12.8	11.6	10.6	10.0	10.0
55°	1352.2	875.3	50.0	23.8	18.3	13.2	11.4	10.4	9.1	8.5	8.3
57.5°	1400.6	838.1	38.2	19.7	14.8	11.0	10.0	8.7	7.3	6.3	6.3
60°	1425.0	784.0	29.3	16.3	11.4	8.7	8.1	6.5	5.1	4.3	4.1
62.5°	1395.7	712.3	22.2	12.8	8.5	6.5	5.5	4.7	3.3	2.4	2.4
63°	1377.6	691.6	21.3	12.2	7.9	6.1	5.1	4.3	2.8	2.2	2.0
65°	1255.9	601.1	17.5	9.8	6.3	4.3	3.5	3.0	2.0	1.0	0.8
67.5°	997.3	459.8	13.8	7.3	4.5	3.0	2.0	1.8	0.6	0.0	0.0
70°	674.3	297.0	10.8	5.3	3.0	1.8	1.0	0.8	0.2	0.0	0.0
72.5°	351.7	152.3	8.3	3.9	1.8	1.2	0.6	0.2	0.0	0.0	0.0
75°	124.4	51.8	6.1	2.4	1.2	0.6	0.2	0.0	0.0	0.0	0.0
77.5°	37.6	19.3	3.9	1.8	0.8	0.4	0.0	0.0	0.0	0.0	0.0
80°	13.2	7.1	2.2	1.2	0.6	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	6.5	3.5	1.4	1.0	0.6	0.2	0.0	0.0	0.0	0.0	0.0
85°	3.7	2.2	1.2	1.0	0.6	0.4	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.6	1.2	1.0	0.8	0.4	0.2	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)