

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: P450623

Luminaire Tested: **GALN-SA1B-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3310 lumens
Efficiency: N/A
Efficacy: 75.2 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): 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: 24 FT

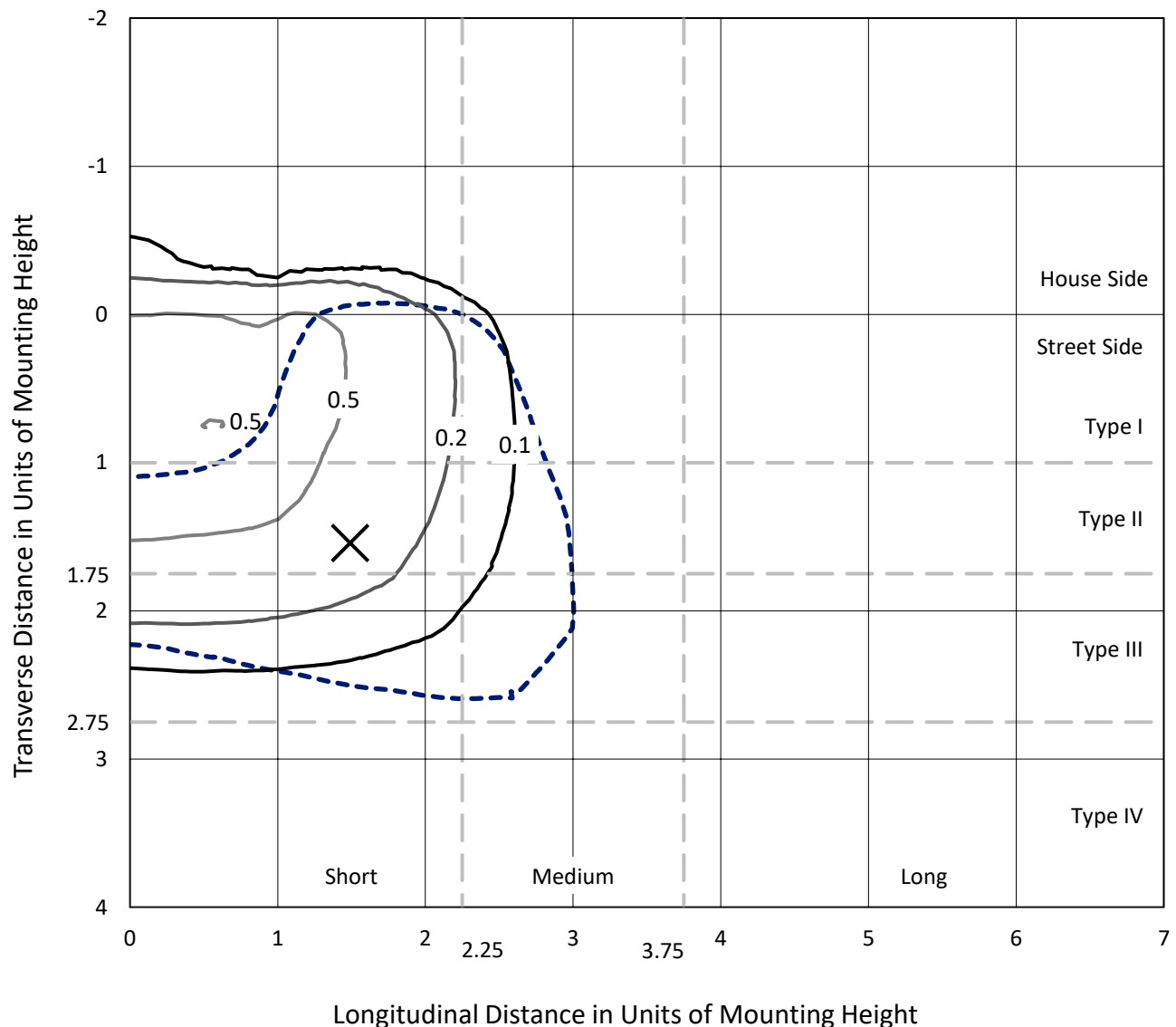


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Iso-Footcandle Lines of Horizontal Illumination

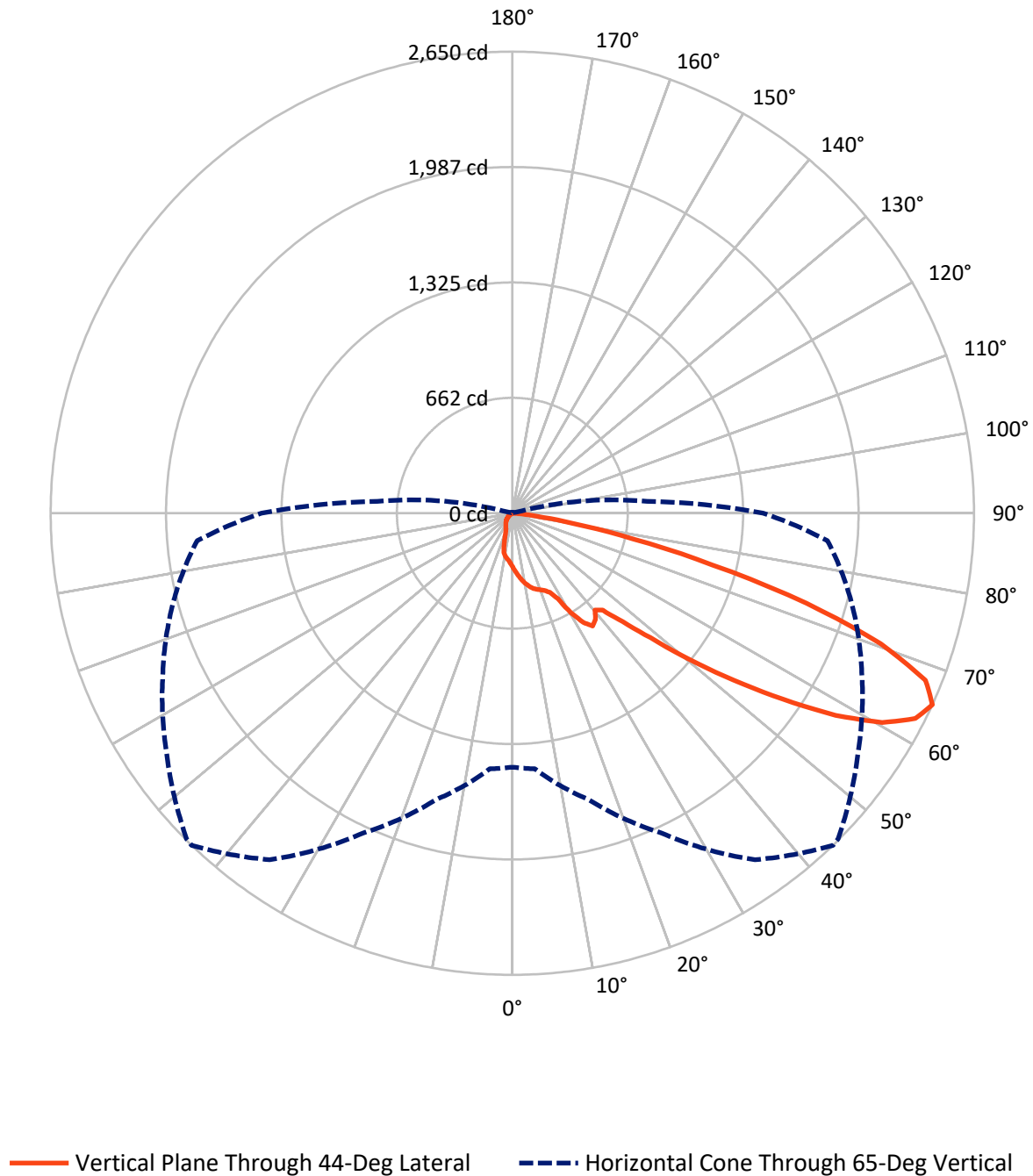
✕ Max cd
 - - - 1/2 Max cd



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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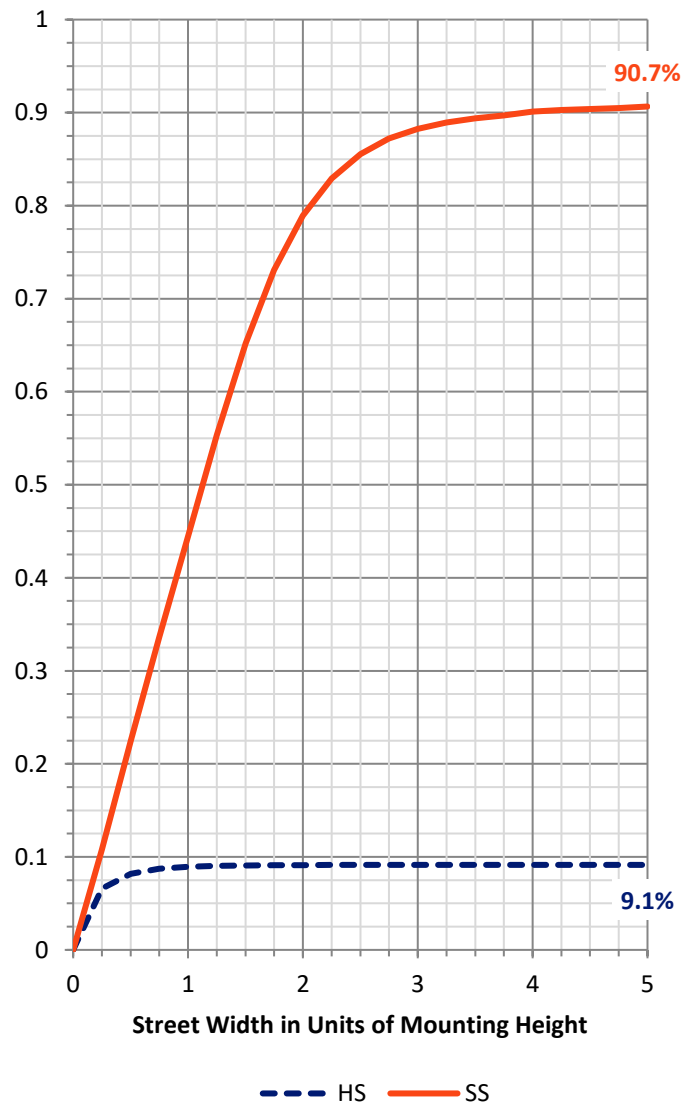
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	305.0	0.0	305.0
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	3005.0	0.0	3005.0
	% Fixture	90.8	0.0	90.8
Total	Lumens	3310.0	0.0	3310.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.6	0.9
10°-20°	92.2	2.8
20°-30°	156.4	4.7
30°-40°	260.0	7.9
40°-50°	453.9	13.7
50°-60°	886.8	26.8
60°-70°	1028.9	31.1
70°-80°	374.7	11.3
80°-90°	26.4	0.8
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°	3310.0	100.0
0°-180°	3310.0	100.0

Coefficient of Utilization



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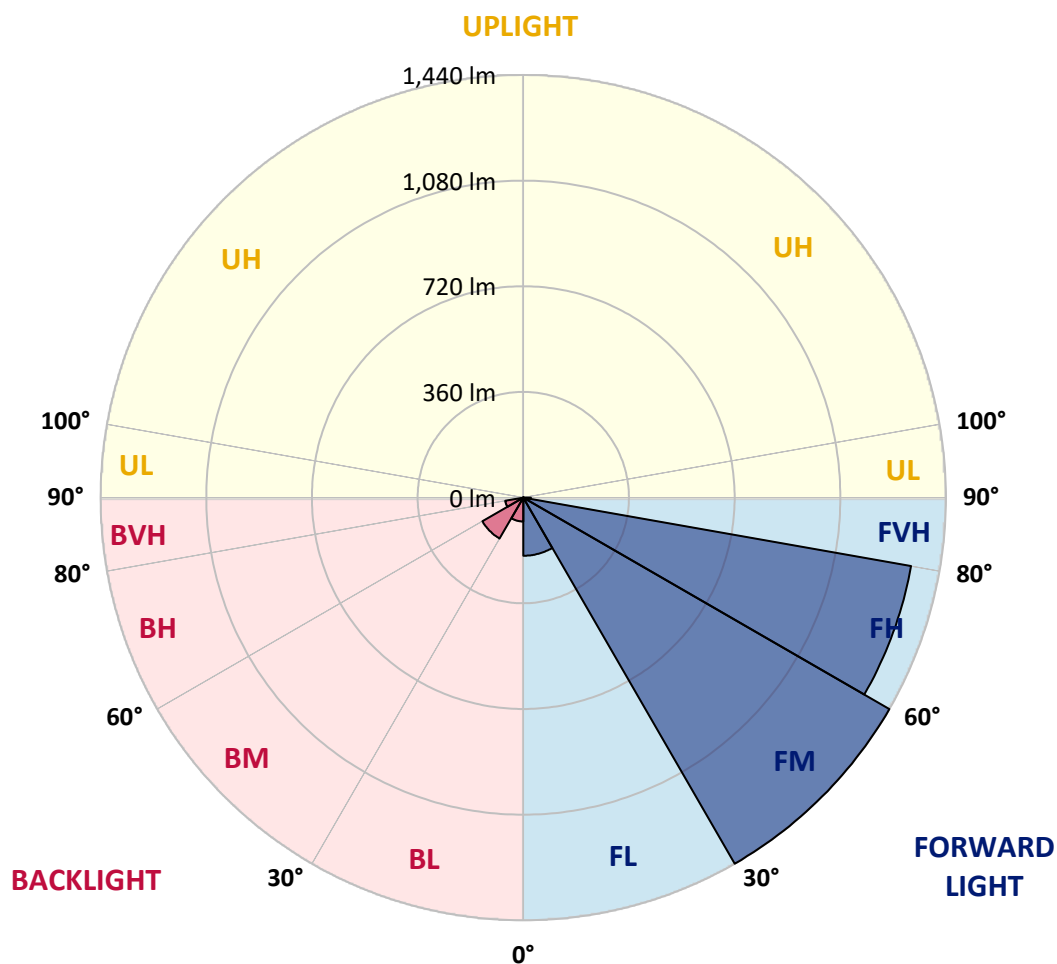
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	198.0	6.0			
FM	(30°-60°)	1439.9	43.5			
FH	(60°-80°)	1341.2	40.5			G1/1800
FVH	(80°-90°)	26.0	0.8			G1/100
BL	(0°-30°)	81.3	2.5	B0/110		
BM	(30°-60°)	160.9	4.9	B0/220		
BH	(60°-80°)	62.5	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°	44°	45°	55°	65°	75°	85°
0°	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1
2.5°	346.8	345.2	344.5	340.4	337.4	333.6	333.6	328.8	323.2	317.2	311.6
5°	385.5	382.9	379.6	376.1	369.0	358.9	358.9	348.8	337.1	326.8	315.4
7.5°	422.6	420.4	414.8	408.0	396.3	385.7	385.0	370.3	356.4	340.7	324.5
10°	455.3	453.5	448.7	435.5	423.4	409.5	409.2	392.8	376.6	357.4	337.4
12.5°	478.0	478.3	472.0	459.3	443.6	430.5	429.5	413.3	396.3	375.6	351.1
15°	494.2	494.2	487.6	473.5	459.3	447.7	446.7	432.5	415.0	392.5	366.0
17.5°	498.8	500.3	493.2	480.6	469.2	459.1	458.8	446.9	433.0	411.3	381.2
20°	497.0	498.5	493.0	483.1	475.2	469.4	468.7	463.9	451.0	430.5	397.3
22.5°	493.2	494.7	490.7	484.9	481.1	482.8	481.6	485.6	478.8	454.0	416.6
25°	494.0	495.5	492.4	489.2	492.4	503.3	506.6	524.1	518.0	483.8	437.3
27.5°	517.7	520.8	516.5	518.0	529.6	554.9	561.2	591.3	564.5	521.8	469.7
30°	570.6	568.6	560.5	567.8	608.3	661.9	660.1	655.3	613.3	565.5	508.1
32.5°	618.7	616.9	616.4	648.0	721.3	747.4	746.1	699.6	657.1	615.6	546.1
35°	638.1	631.3	629.8	706.4	829.1	794.7	786.8	717.8	710.2	670.3	584.8
37.5°	696.8	692.0	668.5	716.0	786.1	774.7	768.6	749.2	766.9	718.6	628.5
40°	817.7	804.3	783.1	736.5	725.1	729.9	736.0	789.4	833.9	784.6	686.9
42.5°	967.9	964.9	925.5	838.7	753.5	760.0	767.9	873.3	930.3	884.0	782.3
45°	1148.3	1152.6	1095.7	993.2	881.4	887.0	898.4	997.3	1060.8	1038.5	932.3
47.5°	1312.2	1308.9	1289.7	1183.2	1080.0	1067.6	1086.1	1156.4	1241.4	1244.9	1118.4
50°	1477.1	1494.5	1466.0	1424.2	1347.6	1321.5	1314.7	1349.1	1478.6	1461.7	1342.0
52.5°	1714.1	1723.2	1669.6	1658.9	1676.4	1591.9	1585.1	1593.4	1709.3	1651.1	1509.5
55°	1863.0	1857.7	1837.8	1920.7	1989.8	1884.3	1875.7	1842.1	1900.7	1784.9	1670.6
57.5°	1910.1	1917.7	1964.2	2114.2	2277.6	2188.1	2172.4	2076.8	2038.8	1909.6	1818.8
60°	1889.1	1903.0	2003.4	2226.5	2453.1	2439.7	2426.3	2265.7	2138.0	2013.8	1922.7
62.5°	1739.6	1759.1	1919.7	2206.5	2512.6	2596.3	2579.6	2383.6	2204.0	2064.4	1940.9
65°	1457.9	1472.3	1702.9	2025.2	2428.1	2649.9	2643.8	2420.5	2214.4	2018.1	1816.3
67.5°	1039.3	1088.3	1302.1	1706.7	2178.2	2558.3	2568.7	2376.2	2117.0	1818.0	1504.1
70°	653.3	686.7	840.0	1221.9	1746.2	2244.5	2278.6	2173.6	1837.2	1417.1	1006.9
72.5°	311.6	336.4	445.7	773.4	1232.5	1765.9	1793.0	1784.4	1420.7	892.8	519.5
75°	138.9	148.2	212.7	394.8	795.7	1187.0	1257.0	1268.7	887.8	436.8	202.1
77.5°	70.8	71.1	99.7	191.2	397.3	708.2	722.1	762.8	481.3	192.5	70.3
80°	37.7	40.2	52.9	90.3	206.1	348.8	347.0	381.4	213.5	94.3	23.5
82.5°	16.9	18.7	29.8	47.3	100.7	132.3	142.6	156.1	91.6	60.2	10.4
85°	5.1	6.1	14.7	23.8	36.4	38.2	42.7	55.1	51.8	42.7	5.3
87.5°	0.8	0.8	6.1	6.6	5.3	6.8	7.1	7.8	16.7	15.7	2.8
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°	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1
2.5°	308.6	306.8	300.5	295.2	290.6	287.8	284.5	282.5	281.5	280.7	281.0
5°	309.8	305.5	294.7	286.1	279.5	272.4	267.6	264.8	263.5	261.5	261.5
7.5°	316.9	310.1	294.9	281.8	270.4	260.8	251.7	248.4	246.1	245.6	245.1
10°	327.0	318.4	297.7	279.5	263.3	250.1	237.2	225.9	217.0	211.7	210.9
12.5°	339.7	327.3	302.0	278.0	257.2	234.0	199.8	176.8	161.4	156.6	157.3
15°	351.3	337.9	306.3	276.7	246.1	194.0	155.3	129.0	121.2	120.4	120.6
17.5°	365.2	349.3	311.4	274.9	215.5	148.2	115.3	108.3	109.8	112.3	112.0
20°	379.6	361.4	317.4	264.3	172.0	111.5	101.9	102.7	105.0	107.2	107.7
22.5°	395.1	375.3	324.5	238.8	131.3	97.1	96.6	97.6	99.9	102.4	102.9
25°	416.3	392.8	329.8	205.4	99.4	89.8	90.8	92.6	94.6	97.4	97.9
27.5°	443.6	416.3	332.6	161.9	86.0	83.2	83.5	86.0	88.5	91.1	91.1
30°	479.0	444.4	327.0	122.4	79.4	76.9	75.9	77.4	80.7	83.2	83.5
32.5°	510.7	470.9	312.4	93.6	74.6	71.1	68.5	68.8	70.1	71.6	71.8
35°	542.3	496.7	287.3	78.7	69.6	65.5	61.7	59.7	58.7	57.9	58.7
37.5°	582.7	528.9	253.9	71.6	65.3	60.2	54.9	50.6	47.0	44.8	45.3
40°	634.8	573.4	214.5	67.0	61.2	55.1	48.1	42.5	36.4	34.4	33.4
42.5°	720.8	640.9	173.0	63.2	57.2	49.8	41.0	33.4	27.8	25.8	26.3
45°	856.7	726.1	133.3	59.2	53.1	44.0	34.4	26.3	21.8	20.7	21.2
47.5°	1036.7	836.4	102.7	54.6	48.1	37.7	27.1	20.7	18.0	17.7	17.5
50°	1206.2	939.1	85.7	49.6	42.0	31.4	22.3	17.5	15.7	15.4	15.4
52.5°	1359.5	1012.7	69.8	43.8	35.4	25.8	18.7	15.4	13.9	13.2	13.2
55°	1495.8	1060.8	56.7	36.7	27.8	20.5	16.2	13.9	12.1	11.1	10.9
57.5°	1598.7	1066.6	42.5	29.3	20.7	15.9	13.9	12.1	10.1	8.9	8.3
60°	1642.7	1016.3	31.4	22.3	15.4	12.6	11.1	9.9	7.6	6.3	6.1
62.5°	1598.5	918.4	23.3	16.9	11.9	9.4	7.8	7.3	5.3	3.8	3.5
65°	1439.9	777.0	18.5	12.9	8.9	6.8	5.1	4.8	3.3	1.8	1.5
67.5°	1153.6	608.5	14.7	9.6	6.3	4.6	3.3	3.0	1.8	0.5	0.5
70°	750.2	389.0	11.9	7.1	4.0	3.0	2.0	1.5	1.0	0.3	0.0
72.5°	371.0	181.9	9.6	5.6	2.8	1.5	0.8	0.5	0.8	0.0	0.0
75°	143.9	64.7	7.1	3.8	1.5	0.8	0.5	0.0	0.3	0.0	0.0
77.5°	47.8	21.5	4.3	2.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0
80°	17.7	8.3	2.3	1.3	0.5	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	7.1	3.3	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.5	2.0	1.0	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	1.5	1.0	0.8	0.5	0.3	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)