

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: P450389

Luminaire Tested: **GALN-SA1A-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
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-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2648 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

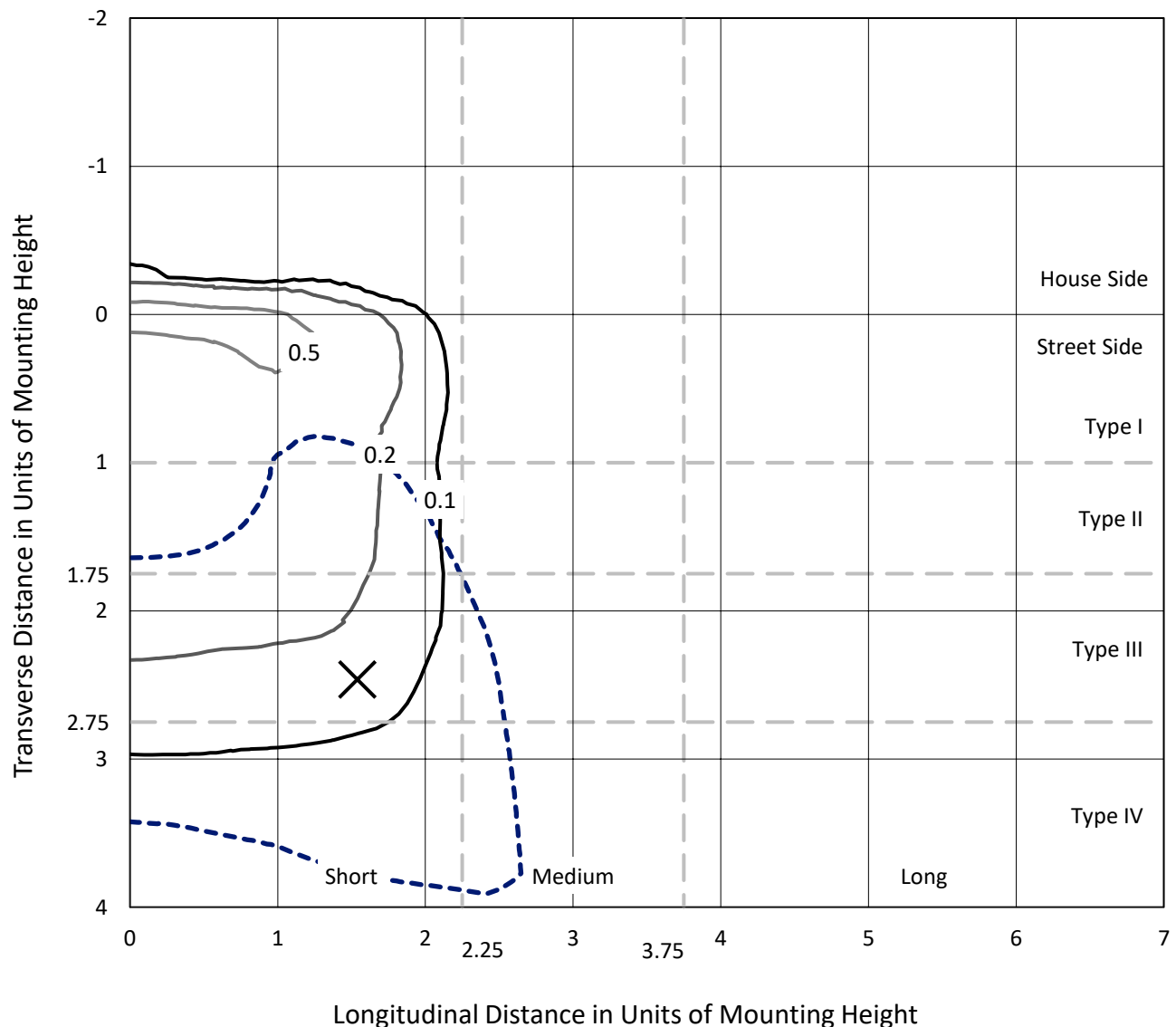
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450389
 CATALOG NUMBER: GALN-SA1A-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

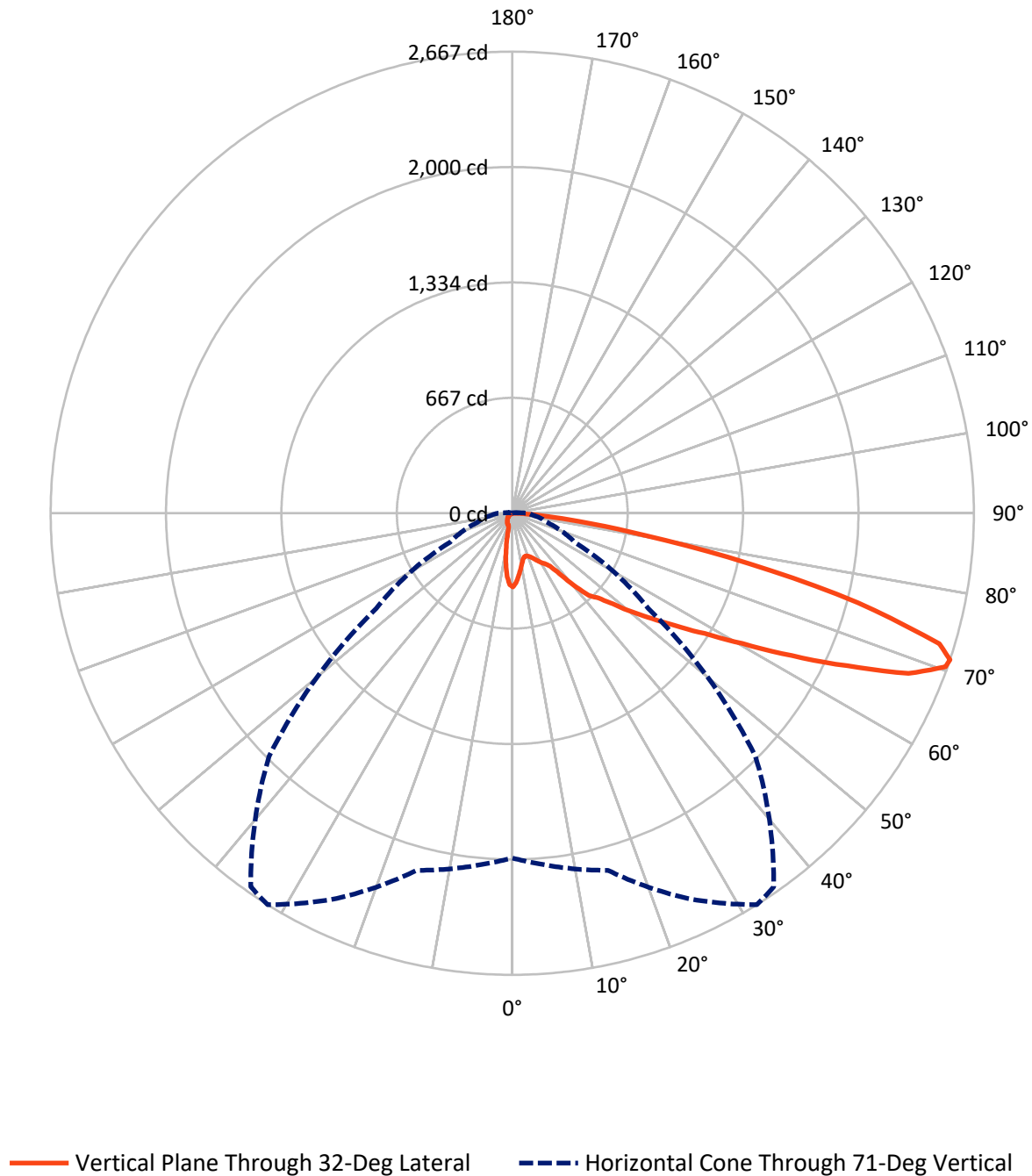
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P450389
CATALOG NUMBER: GALN-SA1A-830-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P450389

CATALOG NUMBER: GALN-SA1A-830-U-T4FT-HSS

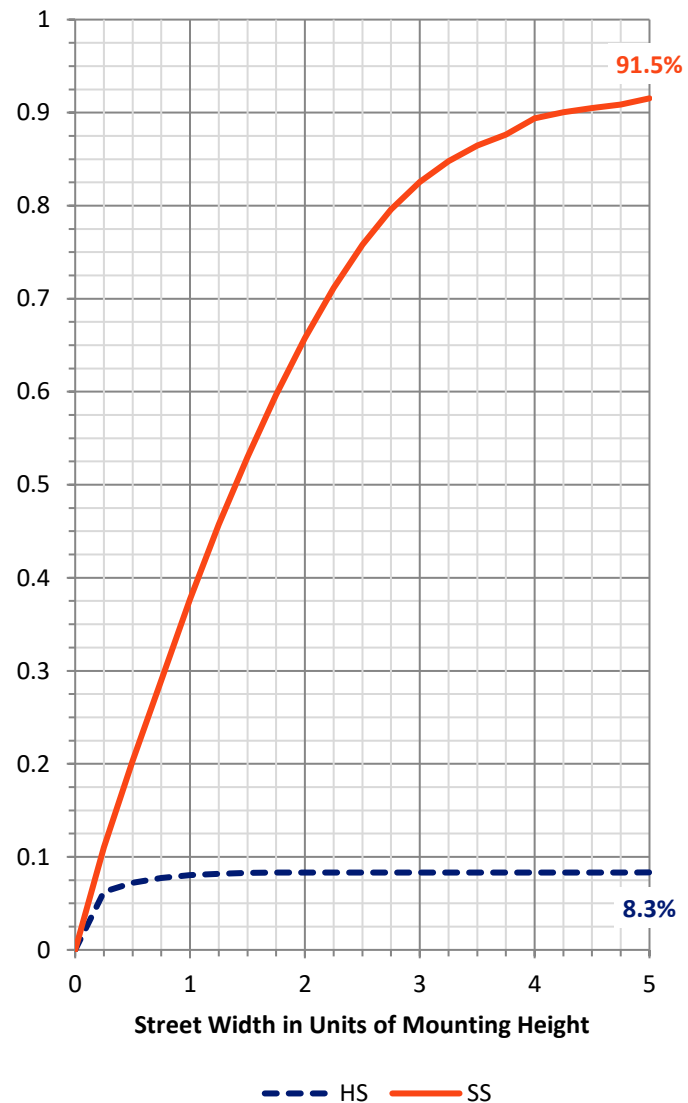
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	221.8	0.0	221.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2426.2	0.0	2426.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	2648.0	0.0	2648.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.6	1.3
10°-20°	75.1	2.8
20°-30°	116.9	4.4
30°-40°	194.8	7.4
40°-50°	362.3	13.7
50°-60°	581.7	22.0
60°-70°	782.4	29.5
70°-80°	464.2	17.5
80°-90°	35.9	1.4
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°	2648.0	100.0
0°-180°	2648.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450389

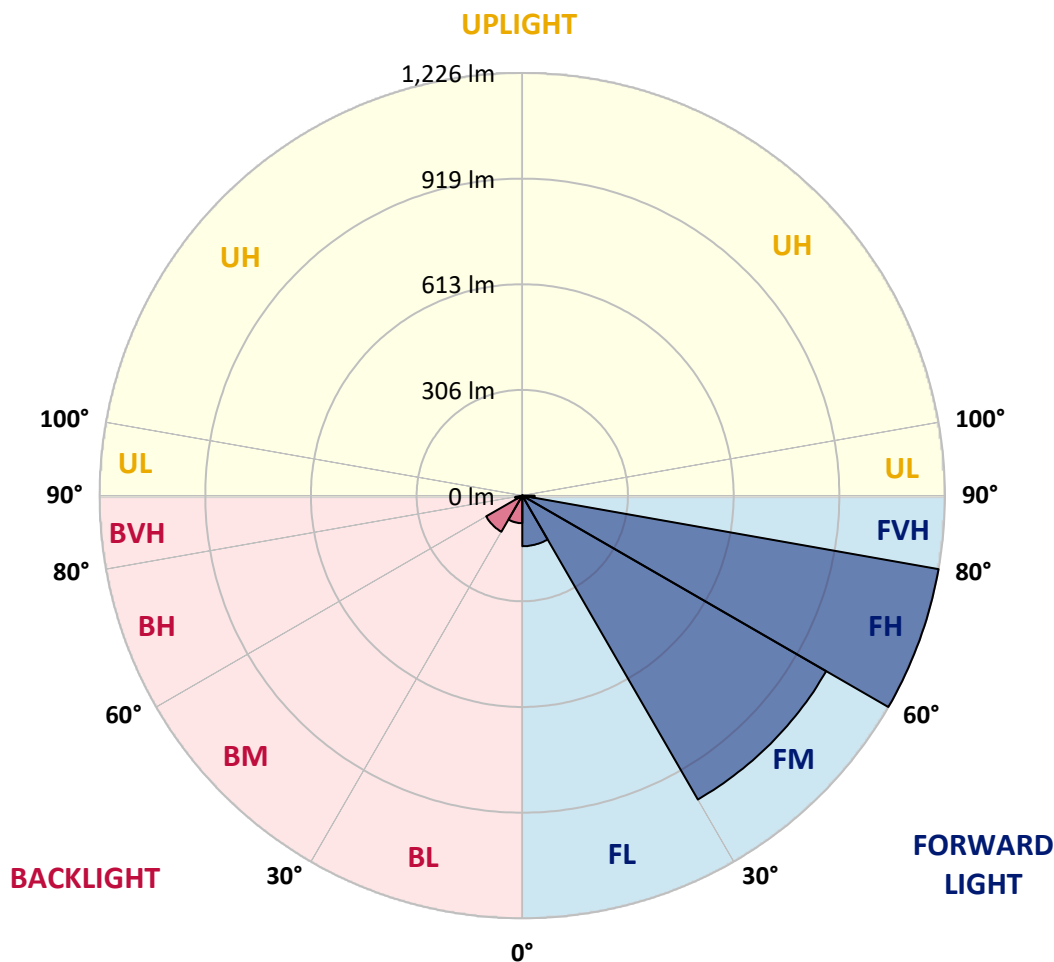
CATALOG NUMBER: GALN-SA1A-830-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	146.8	5.5			
FM	(30°-60°)	1017.8	38.4			
FH	(60°-80°)	1225.9	46.3			G1/1800
FVH	(80°-90°)	35.7	1.3			G1/100
BL	(0°-30°)	79.9	3.0	B0/110		
BM	(30°-60°)	121.0	4.6	B0/220		
BH	(60°-80°)	20.7	0.8	B0/110		G0/110
BVH	(80°-90°)	0.1	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 IV Short





REPORT NUMBER: P450389

CATALOG NUMBER: GALN-SA1A-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8
2.5°	394.9	399.0	398.4	399.8	403.3	404.7	408.6	412.8	418.7	422.8	425.4
5°	353.7	356.7	357.1	364.3	367.7	371.6	383.0	395.4	409.2	420.1	427.5
7.5°	309.6	311.2	314.5	323.8	332.5	336.4	353.7	375.2	397.0	417.5	430.7
10°	273.2	275.0	280.9	290.9	299.0	304.1	328.1	355.1	385.6	416.1	435.4
12.5°	252.5	253.5	255.7	264.7	275.0	280.5	306.3	337.2	376.4	416.7	443.3
15°	251.0	250.6	248.0	251.6	261.0	266.7	291.9	325.0	368.3	418.7	452.7
17.5°	258.6	257.5	251.2	251.2	259.0	263.6	285.8	318.5	364.3	423.4	465.9
20°	270.1	268.5	258.1	257.3	264.9	269.7	289.4	318.9	365.1	432.1	483.6
22.5°	284.8	282.9	267.3	267.7	275.8	280.7	300.0	326.2	370.1	442.9	502.5
25°	303.9	301.8	283.4	282.5	291.1	295.3	315.7	339.2	377.3	456.3	527.3
27.5°	329.3	325.0	302.9	301.6	310.8	316.3	334.6	356.7	389.9	474.8	560.6
30°	350.2	345.6	324.4	321.2	330.9	335.2	354.1	380.3	414.7	507.1	606.7
32.5°	377.7	370.8	346.0	337.4	347.8	353.3	382.3	424.2	451.5	541.3	661.6
35°	439.5	435.2	404.9	375.0	374.4	381.3	424.0	468.5	489.3	594.5	736.4
37.5°	527.9	524.8	492.7	452.7	441.1	437.8	474.6	517.3	549.6	667.7	823.4
40°	630.5	623.4	593.9	560.0	545.0	535.4	534.4	589.9	628.5	767.1	914.1
42.5°	704.1	691.1	655.3	652.9	649.6	639.7	610.8	696.0	730.3	874.0	1011.0
45°	781.3	761.6	708.4	699.2	698.0	697.4	726.3	821.6	841.3	989.9	1110.6
47.5°	841.3	825.7	782.0	777.9	783.0	796.8	878.9	954.9	950.9	1093.2	1194.2
50°	921.2	909.4	860.8	868.6	894.8	917.3	1051.1	1100.3	1040.9	1174.5	1255.0
52.5°	1015.5	993.8	948.6	969.6	1009.8	1047.4	1233.8	1227.5	1104.1	1235.6	1300.3
55°	1097.2	1081.8	1066.3	1088.1	1148.2	1195.2	1398.9	1322.8	1150.1	1284.8	1320.2
57.5°	1235.4	1231.8	1215.9	1238.1	1311.1	1359.8	1546.6	1396.8	1179.5	1310.4	1296.8
60°	1439.9	1434.0	1404.6	1432.8	1527.9	1604.6	1682.8	1463.3	1186.3	1300.5	1229.5
62.5°	1685.9	1665.8	1640.6	1682.2	1812.7	1846.5	1811.1	1502.7	1161.3	1221.2	1067.3
65°	1915.6	1894.8	1895.4	1983.3	2125.3	2148.3	1960.7	1496.8	1088.1	1022.6	787.2
67.5°	2091.4	2087.9	2112.7	2284.1	2469.9	2454.0	2094.4	1408.6	871.2	662.8	418.3
70°	2100.3	2107.0	2178.2	2467.4	2656.1	2630.9	2083.1	1145.0	543.1	304.9	164.8
71°	1992.2	2037.3	2135.7	2461.7	2667.0	2634.3	1987.1	959.0	398.4	212.6	118.9
72.5°	1697.7	1721.4	1934.1	2316.8	2580.2	2510.3	1743.8	672.2	255.1	130.1	68.3
75°	935.0	993.6	1295.2	1817.6	2063.7	2002.4	1136.5	319.3	127.2	71.1	28.3
77.5°	445.1	433.8	632.0	1081.0	1399.3	1396.0	572.6	141.9	74.2	48.2	14.2
80°	127.2	143.1	241.9	513.9	776.9	785.4	219.9	68.5	51.4	37.6	7.3
82.5°	38.4	39.2	88.8	227.3	386.4	364.3	82.5	35.0	37.0	29.9	4.3
85°	6.7	8.3	26.2	80.1	147.4	111.8	20.7	16.7	24.4	19.7	2.4
87.5°	0.4	0.6	8.7	9.1	13.0	7.5	3.7	2.4	5.3	5.3	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P450389

CATALOG NUMBER: GALN-SA1A-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8	425.8
2.5°	427.3	428.5	427.7	425.8	422.8	419.1	414.3	410.2	406.7	404.9	407.1
5°	429.9	431.5	427.5	418.3	404.5	389.5	372.4	359.2	348.8	345.6	344.3
7.5°	434.0	435.0	424.0	403.7	374.4	338.8	307.7	281.5	261.2	255.1	246.2
10°	439.3	438.6	417.9	380.1	328.7	275.2	227.0	191.3	164.2	154.5	153.7
12.5°	447.4	444.1	410.2	348.0	274.2	204.3	144.7	113.2	96.1	90.5	89.2
15°	457.5	449.8	398.0	310.4	210.0	131.9	89.2	79.7	77.4	77.0	76.6
17.5°	469.5	457.3	381.9	264.2	147.6	85.6	74.6	74.4	74.6	74.2	74.0
20°	485.8	465.3	362.8	209.6	97.6	72.2	71.1	71.1	71.3	71.1	71.1
22.5°	503.1	474.6	339.2	160.0	73.6	68.5	68.3	68.7	69.1	68.9	68.9
25°	524.4	486.8	308.1	109.6	65.9	65.5	65.7	66.5	67.3	67.5	67.3
27.5°	555.3	501.9	274.8	75.4	60.4	60.8	62.8	64.8	66.1	66.3	66.3
30°	590.1	518.5	231.3	61.2	55.9	55.9	58.3	62.2	64.8	65.2	65.5
32.5°	634.8	537.8	183.1	55.1	51.6	51.2	53.5	58.1	63.0	64.4	64.4
35°	690.1	560.6	136.2	51.2	48.6	47.6	48.8	52.6	58.9	63.0	63.4
37.5°	754.9	582.2	99.6	47.8	45.7	44.3	45.1	48.2	53.3	59.4	61.0
40°	814.9	601.3	74.4	44.9	42.9	41.9	42.5	43.9	48.2	53.9	54.9
42.5°	880.3	616.1	59.2	41.9	40.0	39.6	39.6	40.2	43.1	46.3	46.5
45°	945.6	621.4	49.6	38.2	37.0	37.4	37.2	36.8	38.0	37.6	37.6
47.5°	992.1	615.1	41.1	34.8	34.8	35.4	34.4	32.9	32.3	29.9	30.1
50°	1024.0	592.1	33.7	30.7	32.3	33.1	31.1	28.9	26.6	24.0	23.4
52.5°	1037.3	551.3	27.6	25.4	28.7	29.7	27.2	24.6	21.1	18.9	18.3
55°	1028.7	500.8	23.0	20.7	24.2	25.4	23.0	19.9	16.1	13.6	13.2
57.5°	991.1	440.7	19.5	16.5	19.3	20.1	18.5	15.2	11.4	8.9	8.9
60°	926.1	378.5	15.9	13.0	14.4	15.7	14.0	11.0	7.7	5.5	5.1
62.5°	794.2	307.3	12.8	10.2	10.2	11.2	9.8	7.9	4.9	2.8	2.6
65°	573.4	210.8	10.2	7.5	7.3	7.3	6.1	5.3	2.8	1.2	0.8
67.5°	311.6	118.9	8.1	5.7	5.1	4.9	3.9	3.0	1.2	0.2	0.0
70°	122.6	45.7	6.3	3.9	3.3	3.0	2.0	1.4	0.8	0.0	0.0
71°	83.1	31.5	5.5	3.3	2.6	2.2	1.6	1.2	0.6	0.0	0.0
72.5°	47.6	19.5	4.3	2.4	2.0	1.6	1.2	0.8	0.6	0.0	0.0
75°	20.7	10.0	2.6	1.8	1.4	1.0	0.8	0.6	0.2	0.0	0.0
77.5°	10.6	5.5	1.8	1.4	0.8	0.6	0.4	0.2	0.0	0.0	0.0
80°	5.9	2.8	1.2	0.8	0.6	0.4	0.2	0.2	0.0	0.0	0.0
82.5°	3.3	1.6	0.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.4	0.0	0.0	0.0	0.0	0.2	0.2	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)