

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: P450381

Luminaire Tested: **GALN-SA1A-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2749 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - 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



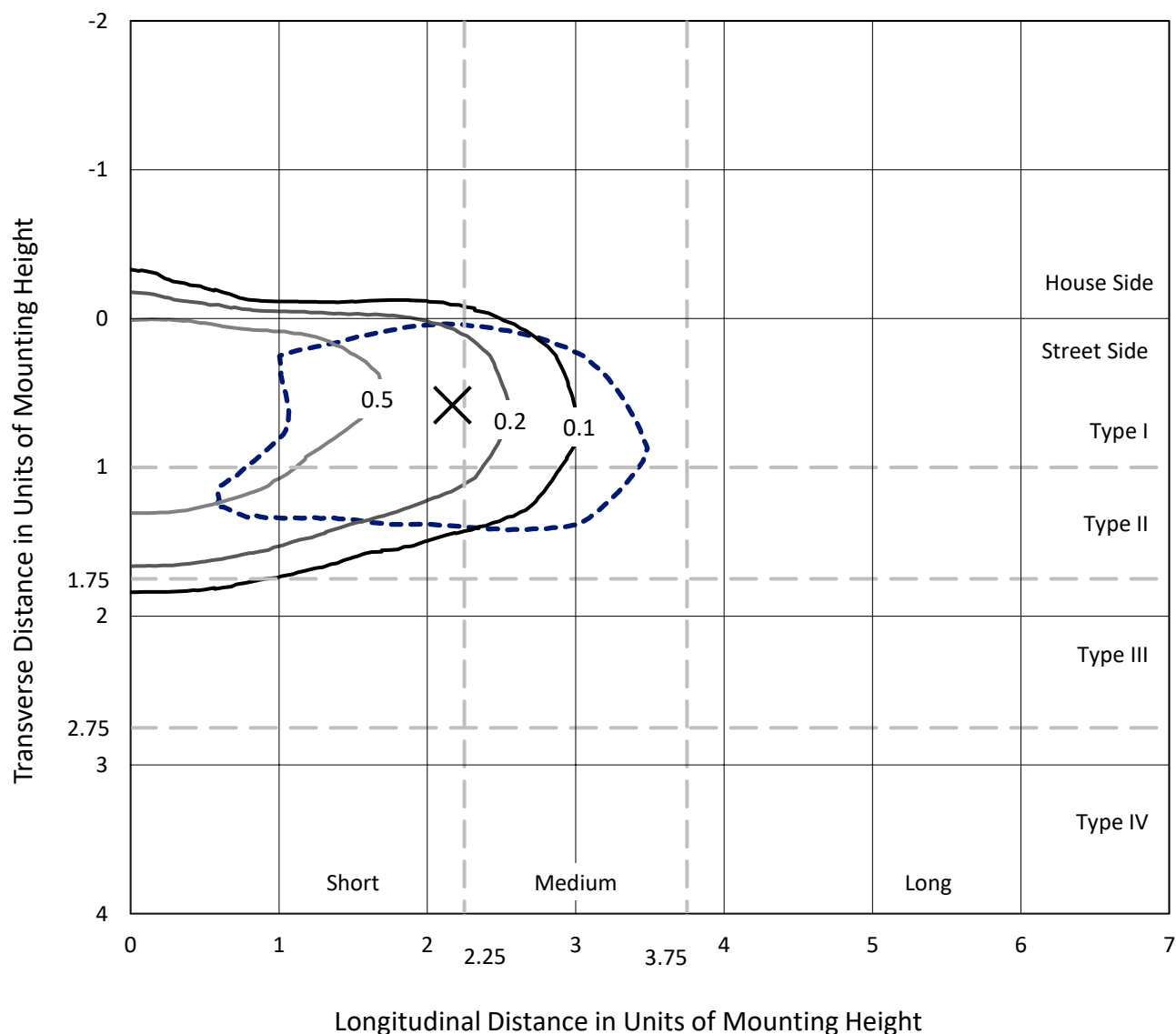
REPORT NUMBER: P450381

CATALOG NUMBER: GALN-SA1A-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

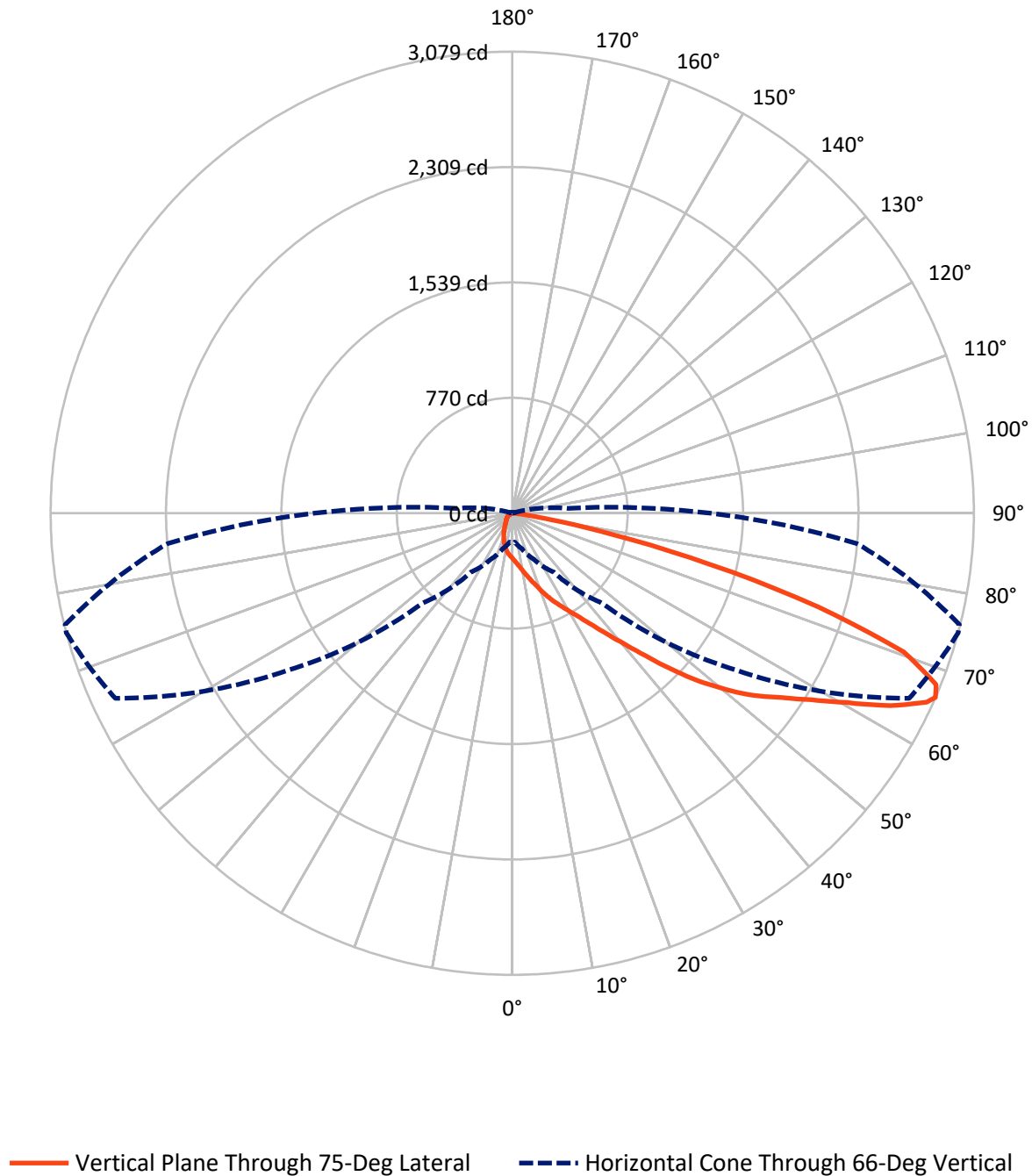


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc

Type II - Short - N/A

REPORT NUMBER: P450381
CATALOG NUMBER: GALN-SA1A-830-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P450381

CATALOG NUMBER: GALN-SA1A-830-U-T2-HSS

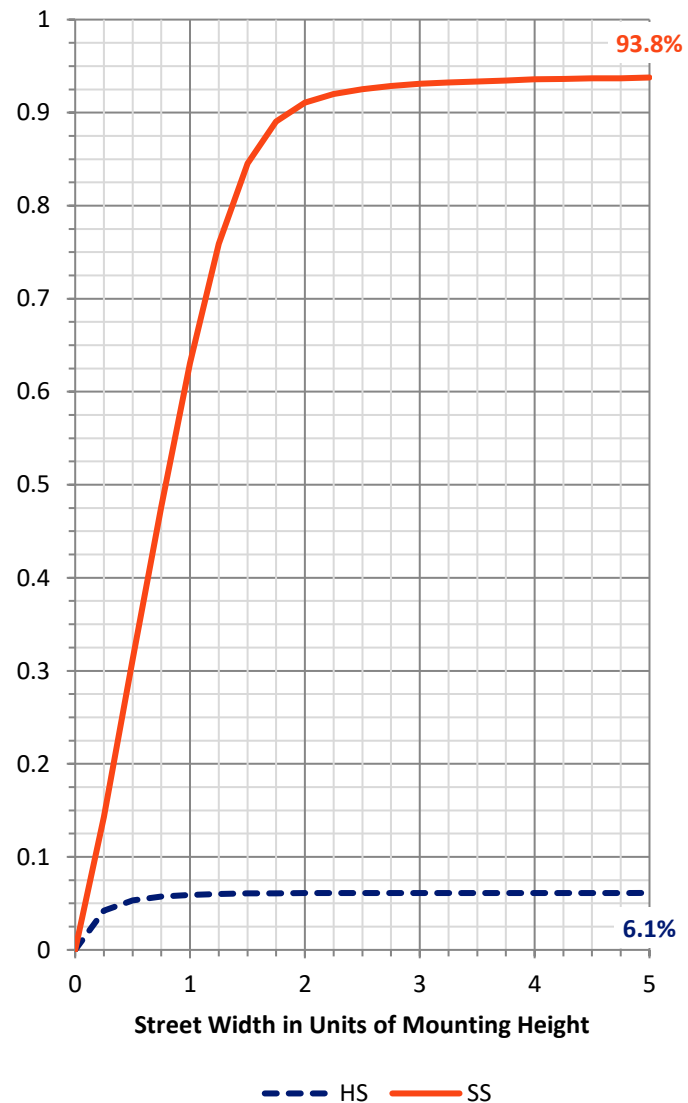
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	169.7	0.0	169.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	2579.3	0.0	2579.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	2749.0	0.0	2749.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	1.1
10°-20°	85.3	3.1
20°-30°	147.4	5.4
30°-40°	265.8	9.7
40°-50°	480.2	17.5
50°-60°	748.6	27.2
60°-70°	711.1	25.9
70°-80°	266.5	9.7
80°-90°	15.0	0.5
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°	2749.0	100.0
0°-180°	2749.0	100.0



REPORT NUMBER: P450381

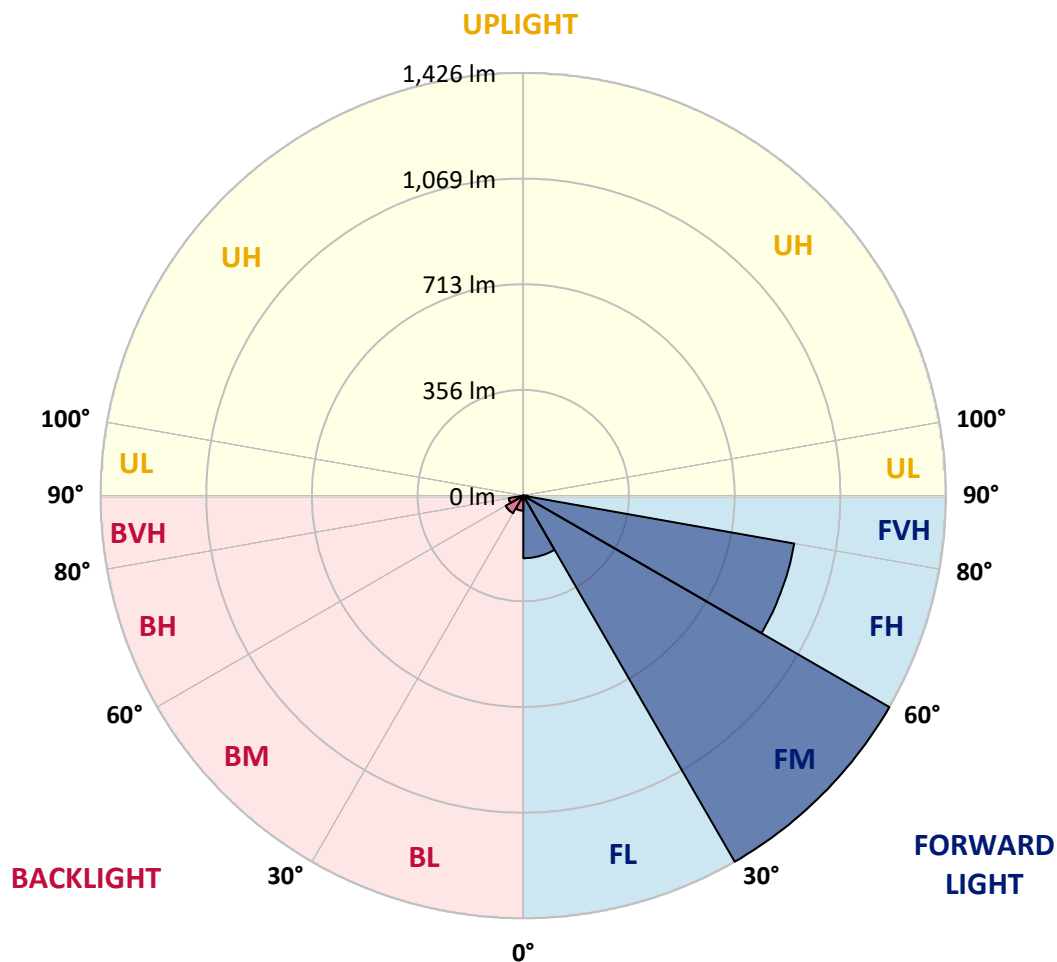
CATALOG NUMBER: GALN-SA1A-830-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	211.0	7.7			
FM	(30°-60°)	1425.9	51.9			
FH	(60°-80°)	928.1	33.8			G1/1800
FVH	(80°-90°)	14.3	0.5			G1/100
BL	(0°-30°)	50.7	1.8	B0/110		
BM	(30°-60°)	68.7	2.5	B0/220		
BH	(60°-80°)	49.6	1.8	B0/110		G0/110
BVH	(80°-90°)	0.8	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 II Short





REPORT NUMBER: P450381

CATALOG NUMBER: GALN-SA1A-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	300.6	300.6	300.6	300.6	300.6	300.6	300.6	300.6	300.6	300.6	300.6
2.5°	359.2	354.7	356.1	354.1	349.4	342.5	336.4	327.7	318.9	317.5	307.7
5°	406.5	405.3	403.7	397.8	394.5	384.0	371.4	356.3	338.2	335.0	317.3
7.5°	438.9	438.2	439.1	436.0	433.2	423.6	410.2	389.7	361.6	359.8	330.3
10°	449.4	451.0	454.1	459.0	463.4	460.4	450.2	424.6	391.9	386.6	345.1
12.5°	443.3	445.2	452.5	465.5	479.9	488.2	484.2	465.5	424.0	419.7	361.8
15°	427.7	429.9	440.3	460.4	486.2	509.8	520.0	506.5	461.4	454.5	381.9
17.5°	404.5	407.8	422.6	449.2	484.6	525.2	553.9	549.4	501.3	494.7	403.9
20°	387.0	389.5	402.1	432.5	477.7	533.8	586.2	598.8	550.4	539.3	429.7
22.5°	398.6	399.4	403.7	422.0	465.3	536.0	614.7	650.2	602.7	592.7	456.5
25°	455.3	447.2	442.9	438.9	462.6	534.0	640.5	703.9	654.7	644.1	483.2
27.5°	544.8	541.1	519.5	490.7	485.2	536.6	657.6	754.7	703.7	692.3	509.2
30°	642.1	635.8	622.6	580.3	537.8	555.3	670.0	804.1	761.6	746.6	533.0
32.5°	731.6	735.6	715.9	672.4	623.2	595.2	686.0	858.0	828.1	809.4	560.6
35°	835.8	844.0	813.7	772.0	714.5	667.1	717.3	918.8	912.5	888.9	603.3
37.5°	941.7	946.6	928.1	869.6	817.7	758.6	776.3	993.8	1016.3	996.2	654.3
40°	1030.8	1037.5	1023.9	971.8	916.5	864.5	861.8	1075.5	1139.9	1119.2	730.3
42.5°	1098.9	1103.9	1104.3	1067.6	1017.8	994.2	971.0	1179.8	1294.8	1270.8	818.6
45°	1184.8	1192.2	1187.9	1162.9	1125.7	1121.4	1109.4	1305.8	1480.2	1449.9	933.0
47.5°	1317.8	1322.7	1312.1	1282.6	1244.8	1251.5	1244.4	1447.1	1669.2	1643.2	1051.5
50°	1410.1	1418.2	1433.2	1445.0	1417.6	1392.8	1371.6	1579.0	1848.7	1825.3	1172.6
52.5°	1409.0	1422.5	1470.0	1529.4	1589.3	1581.8	1521.0	1724.7	2020.1	1991.2	1286.5
55°	1314.1	1340.1	1410.1	1515.3	1681.4	1764.1	1736.5	1893.4	2168.0	2148.5	1418.4
57.5°	1118.2	1134.0	1231.2	1378.3	1630.0	1849.9	1986.1	2122.1	2345.5	2336.3	1623.3
60°	752.1	759.2	884.2	1066.1	1387.7	1764.3	2169.1	2398.7	2564.0	2559.5	1862.5
62.5°	430.9	434.0	524.6	678.1	987.5	1495.2	2184.5	2740.0	2826.0	2828.4	2139.4
65°	231.9	233.6	306.7	398.0	600.9	1065.7	1964.4	2927.0	3037.8	3042.5	2310.9
66°	200.2	192.5	244.1	339.3	478.1	848.2	1825.1	2920.3	3078.5	3073.4	2304.8
67.5°	152.2	159.2	194.9	260.8	354.3	603.1	1506.8	2790.4	3047.6	3031.7	2211.1
70°	109.0	111.8	138.8	186.0	241.3	330.9	962.9	2317.6	2769.9	2748.6	1926.4
72.5°	70.3	73.4	98.4	134.6	174.4	180.7	539.1	1674.5	2135.5	2132.5	1450.7
75°	50.2	53.1	65.0	96.3	131.1	111.8	259.6	1128.5	1357.6	1348.5	897.4
77.5°	36.4	37.8	43.5	63.0	93.7	80.1	120.3	602.7	675.9	707.8	396.6
80°	20.9	22.2	30.3	38.4	63.4	54.7	57.5	241.9	249.4	237.4	124.0
82.5°	10.4	11.8	18.1	26.2	39.6	36.8	26.4	72.8	76.8	74.8	31.3
85°	2.4	3.0	10.2	17.3	19.3	16.5	12.8	21.3	26.4	25.8	12.0
87.5°	0.2	0.4	3.7	3.0	3.3	5.5	4.5	5.5	8.5	7.9	4.3
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: P450381

CATALOG NUMBER: GALN-SA1A-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	300.6	300.6	300.6	300.6	300.6	300.6	300.6	300.6	300.6	300.6	300.6
2.5°	303.3	299.4	288.2	277.3	268.1	258.6	249.8	244.7	242.7	240.5	241.5
5°	307.5	298.2	275.6	256.1	237.0	220.7	207.7	199.4	195.3	194.7	193.7
7.5°	313.2	297.2	262.2	231.7	206.7	188.6	173.8	161.8	158.1	154.9	152.2
10°	320.1	295.3	245.5	206.1	179.5	156.7	137.2	123.0	115.7	113.6	115.0
12.5°	327.5	291.9	228.1	182.5	151.8	122.8	104.7	97.6	95.5	94.7	94.9
15°	334.8	287.6	209.8	159.8	120.9	98.0	89.6	87.8	87.0	86.6	86.2
17.5°	341.5	280.7	189.2	137.6	98.0	83.7	80.7	79.1	77.4	76.8	75.8
20°	349.4	272.8	170.7	112.8	82.9	75.8	72.2	69.1	66.7	65.0	64.8
22.5°	356.9	262.6	151.4	93.5	75.6	68.1	62.2	58.9	56.1	54.1	54.7
25°	361.0	250.2	134.2	81.5	68.9	60.4	53.9	49.8	46.8	45.7	45.5
27.5°	361.0	235.0	117.3	74.6	62.8	53.5	46.8	42.9	40.9	39.4	39.6
30°	358.2	218.1	101.6	69.3	57.5	47.4	41.1	37.6	36.0	35.0	34.8
32.5°	355.9	202.0	88.2	64.2	52.0	42.1	36.6	33.9	32.3	31.3	31.3
35°	359.4	188.2	77.9	59.2	47.0	38.0	33.1	30.7	29.1	28.3	28.1
37.5°	368.5	175.6	69.9	53.7	42.3	34.6	30.7	27.8	26.2	25.2	24.8
40°	391.1	168.5	64.0	48.6	37.8	31.7	27.8	25.2	23.2	22.2	22.0
42.5°	427.3	168.7	58.3	43.9	34.4	29.3	25.4	22.4	20.1	19.1	18.9
45°	481.7	176.4	53.9	39.4	31.3	26.6	22.8	19.5	17.5	16.5	16.5
47.5°	547.0	191.5	50.0	35.6	28.5	24.2	20.1	16.9	14.8	14.0	14.0
50°	617.7	211.0	46.1	31.5	26.0	21.5	17.3	14.6	13.0	12.4	12.4
52.5°	689.9	234.6	42.3	28.3	23.4	18.7	14.8	13.0	11.6	11.2	11.0
55°	784.6	264.7	38.2	24.8	20.5	16.1	13.2	11.4	9.8	9.1	8.9
57.5°	930.3	310.0	33.7	21.7	16.9	13.4	11.4	9.6	7.7	6.7	6.5
60°	1106.2	365.3	29.1	19.1	13.6	11.0	9.1	7.3	5.7	4.5	4.3
62.5°	1270.8	400.4	24.6	16.1	10.8	8.3	6.5	5.5	4.1	2.8	2.6
65°	1343.6	388.6	20.3	13.0	8.5	5.9	4.3	3.9	2.4	1.2	1.0
66°	1319.4	371.2	18.7	11.8	7.7	5.1	3.7	3.3	1.8	0.6	0.6
67.5°	1248.1	329.9	16.3	10.2	6.7	4.1	2.8	2.4	1.0	0.2	0.0
70°	1069.4	266.9	12.8	7.5	4.9	2.8	1.6	1.2	0.6	0.0	0.0
72.5°	821.4	198.8	10.2	5.7	3.5	1.6	0.8	0.4	0.6	0.0	0.0
75°	503.3	113.6	7.9	4.3	2.2	1.0	0.6	0.0	0.6	0.2	0.0
77.5°	223.4	51.0	5.3	2.8	1.6	0.8	0.4	0.0	0.4	0.2	0.0
80°	56.5	16.7	3.0	2.0	1.2	0.6	0.2	0.0	0.4	0.4	0.2
82.5°	15.4	6.1	2.2	1.6	1.0	0.6	0.2	0.0	0.4	0.4	0.4
85°	6.1	2.8	2.0	1.6	1.2	0.6	0.2	0.0	0.4	0.4	0.4
87.5°	2.8	2.0	2.0	1.8	1.4	0.6	0.2	0.0	0.4	0.2	0.4
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)