

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: P450710

Luminaire Tested: **GALN-SA1C-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450710
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-SA1C-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA 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: 4687 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

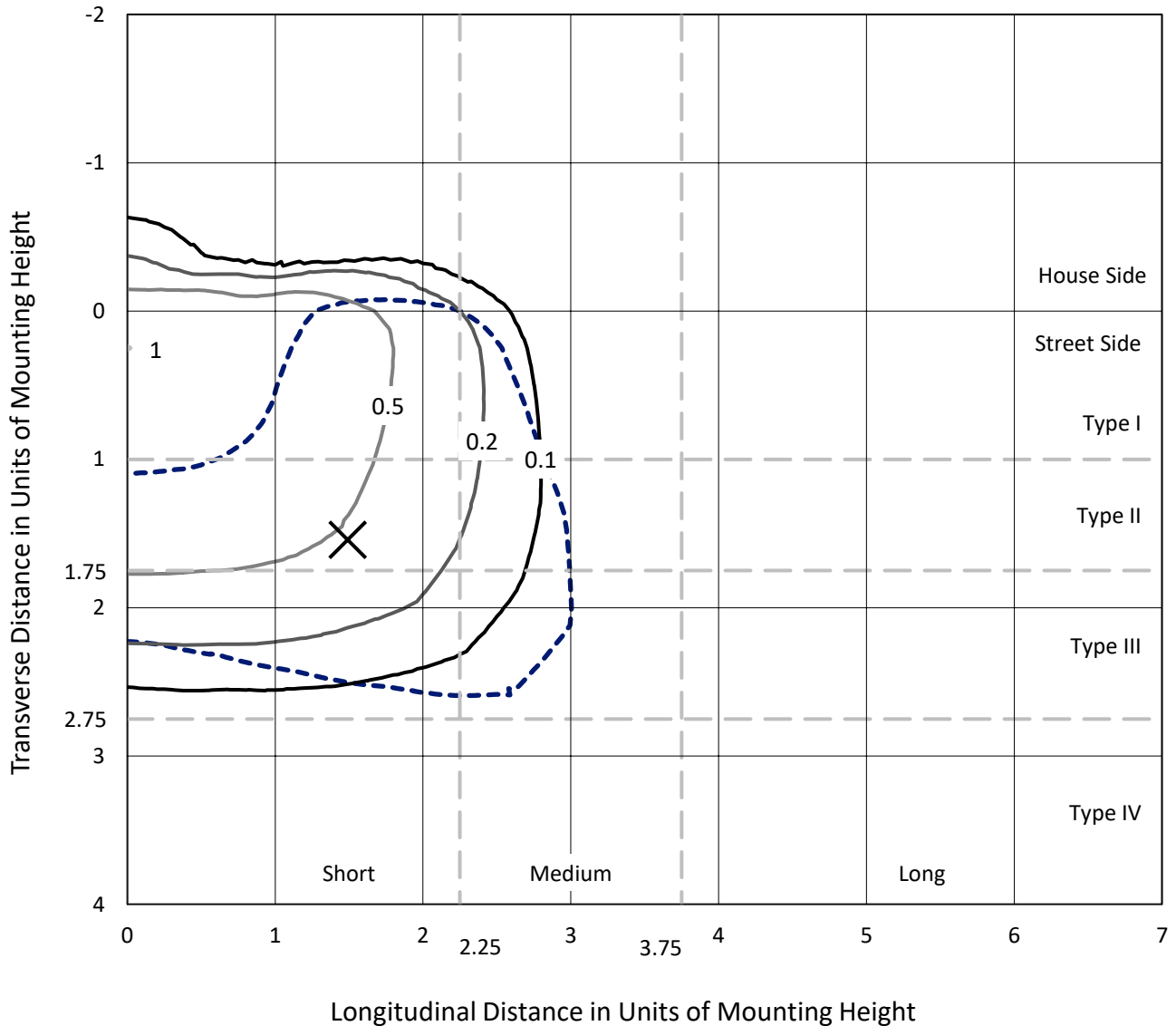
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450710
 CATALOG NUMBER: GALN-SA1C-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

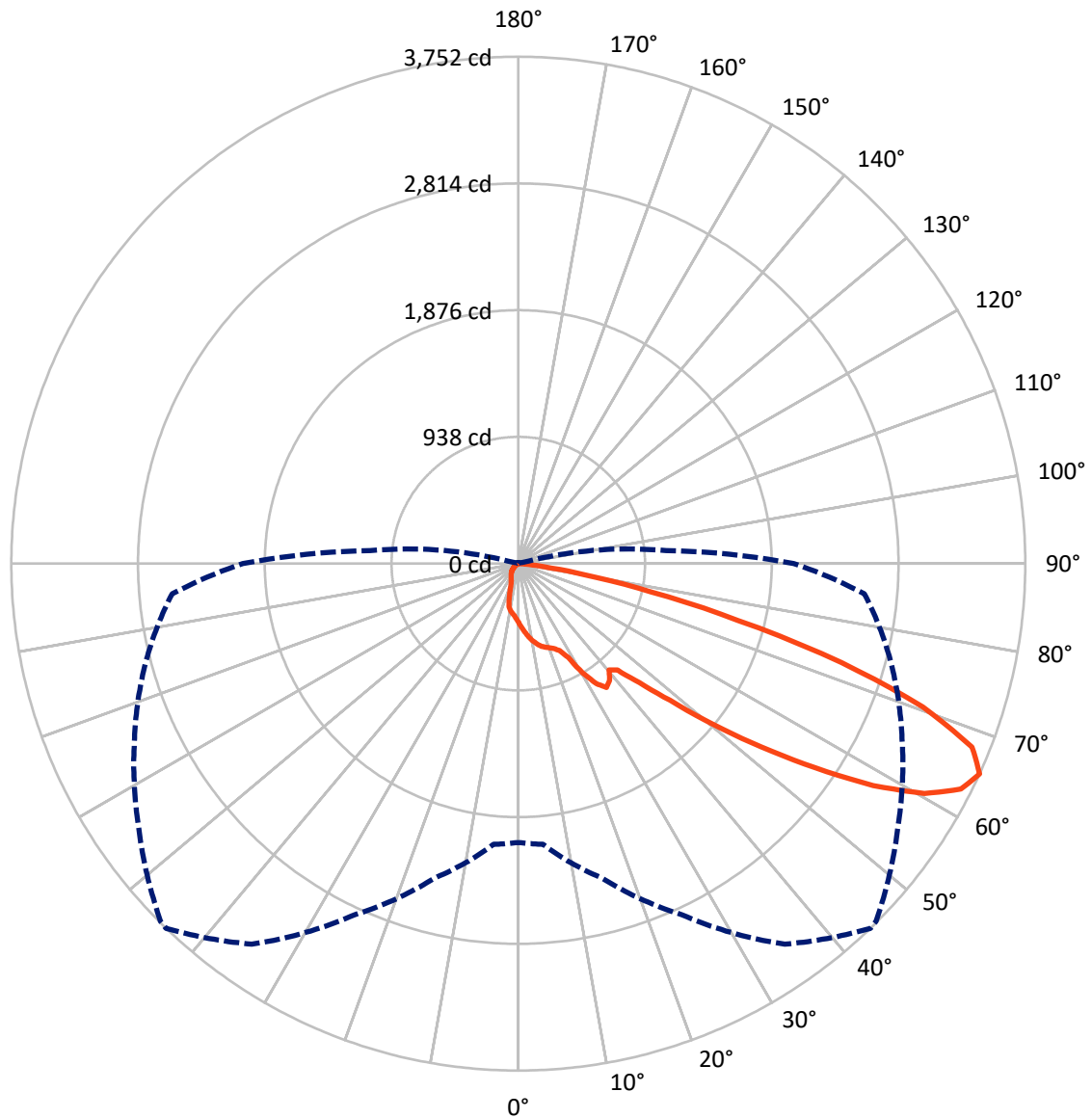
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P450710
CATALOG NUMBER: GALN-SA1C-730-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P450710
 CATALOG NUMBER: GALN-SA1C-730-U-T4W-HSS

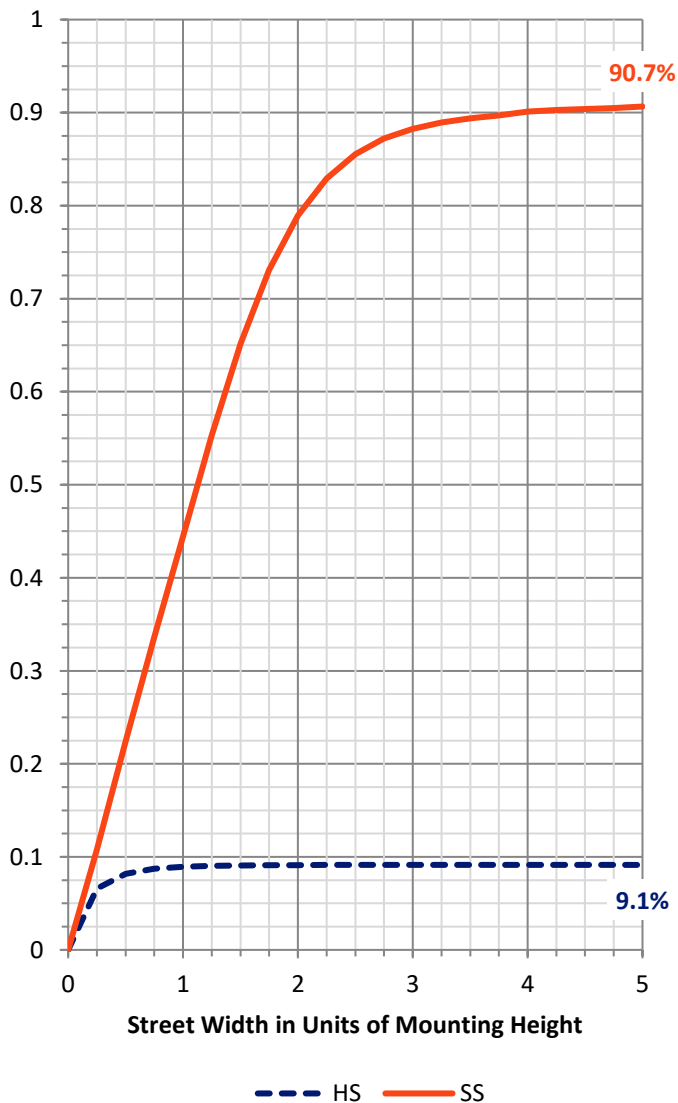
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	431.8	0.0	431.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	4255.2	0.0	4255.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	4687.0	0.0	4687.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	0.9
10°-20°	130.6	2.8
20°-30°	221.4	4.7
30°-40°	368.1	7.9
40°-50°	642.8	13.7
50°-60°	1255.8	26.8
60°-70°	1457.0	31.1
70°-80°	530.6	11.3
80°-90°	37.4	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°	4687.0	100.0
0°-180°	4687.0	100.0

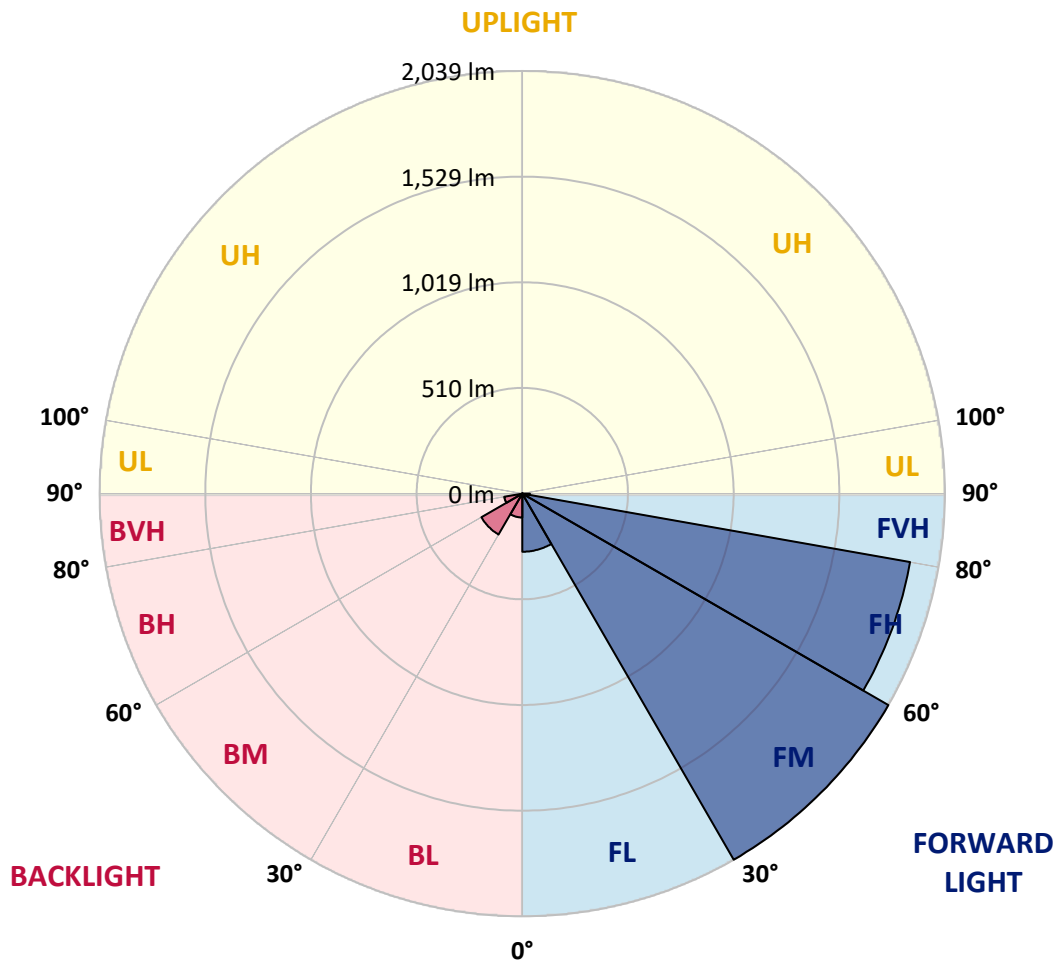


REPORT NUMBER: P450710
 CATALOG NUMBER: GALN-SA1C-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	280.3	6.0			
FM (30°-60°)	2038.9	43.5			
FH (60°-80°)	1899.1	40.5			G2/5000
FVH (80°-90°)	36.9	0.8			G1/100
BL (0°-30°)	115.1	2.5	B1/500		
BM (30°-60°)	227.8	4.9	B1/1000		
BH (60°-80°)	88.4	1.9	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





REPORT NUMBER: P450710

CATALOG NUMBER: GALN-SA1C-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	436.2	436.2	436.2	436.2	436.2	436.2	436.2	436.2	436.2	436.2	436.2
2.5°	491.0	488.9	487.8	482.1	477.8	472.4	472.4	465.6	457.7	449.1	441.2
5°	545.8	542.2	537.6	532.6	522.5	508.2	508.2	493.9	477.4	462.7	446.6
7.5°	598.5	595.2	587.4	577.7	561.2	546.2	545.1	524.3	504.6	482.4	459.5
10°	644.7	642.2	635.3	616.7	599.5	579.8	579.5	556.2	533.3	506.1	477.8
12.5°	676.9	677.3	668.3	650.4	628.2	609.6	608.1	585.2	561.2	531.8	497.1
15°	699.8	699.8	690.5	670.4	650.4	633.9	632.5	612.4	587.7	555.8	518.2
17.5°	706.3	708.4	698.4	680.5	664.4	650.0	649.7	632.8	613.1	582.3	539.7
20°	703.8	705.9	698.0	684.1	673.0	664.7	663.6	656.8	638.6	609.6	562.6
22.5°	698.4	700.5	694.8	686.6	681.2	683.7	681.9	687.6	678.0	642.9	589.9
25°	699.5	701.6	697.3	692.7	697.3	712.7	717.4	742.1	733.5	685.1	619.2
27.5°	733.1	737.4	731.3	733.5	750.0	785.8	794.7	837.3	799.4	738.9	665.1
30°	808.0	805.1	793.6	804.0	861.3	937.3	934.8	928.0	868.5	800.8	719.5
32.5°	876.0	873.5	872.8	917.6	1021.4	1058.3	1056.5	990.6	930.5	871.7	773.2
35°	903.6	893.9	891.8	1000.3	1174.0	1125.3	1114.2	1016.4	1005.7	949.1	828.0
37.5°	986.7	979.9	946.6	1013.9	1113.1	1097.0	1088.4	1060.8	1085.9	1017.5	890.0
40°	1157.9	1138.9	1108.8	1042.9	1026.8	1033.6	1042.2	1117.8	1180.8	1111.0	972.7
42.5°	1370.6	1366.3	1310.5	1187.6	1066.9	1076.2	1087.3	1236.7	1317.3	1251.7	1107.7
45°	1626.0	1632.1	1551.5	1406.4	1248.1	1256.0	1272.1	1412.2	1502.1	1470.5	1320.1
47.5°	1858.1	1853.4	1826.2	1675.4	1529.3	1511.7	1537.9	1637.4	1757.8	1762.8	1583.7
50°	2091.6	2116.3	2075.8	2016.7	1908.2	1871.3	1861.6	1910.3	2093.7	2069.7	1900.3
52.5°	2427.1	2440.0	2364.1	2349.1	2373.8	2254.2	2244.5	2256.3	2420.3	2338.0	2137.4
55°	2638.1	2630.6	2602.3	2719.7	2817.5	2668.2	2656.0	2608.4	2691.5	2527.4	2365.5
57.5°	2704.7	2715.5	2781.3	2993.7	3225.1	3098.3	3076.1	2940.7	2887.0	2704.0	2575.4
60°	2675.0	2694.7	2836.9	3152.7	3473.6	3454.7	3435.7	3208.3	3027.4	2851.5	2722.6
62.5°	2463.3	2490.9	2718.3	3124.5	3557.8	3676.4	3652.7	3375.2	3120.9	2923.2	2748.4
65°	2064.3	2084.8	2411.4	2867.7	3438.2	3752.3	3743.7	3427.4	3135.6	2857.6	2571.8
67.5°	1471.6	1541.1	1843.7	2416.8	3084.3	3622.6	3637.3	3364.8	2997.7	2574.3	2129.9
70°	925.1	972.4	1189.4	1730.2	2472.6	3178.2	3226.5	3077.9	2601.6	2006.7	1425.8
72.5°	441.2	476.3	631.1	1095.2	1745.2	2500.6	2538.9	2526.7	2011.7	1264.2	735.6
75°	196.6	209.9	301.2	559.1	1126.7	1680.8	1780.0	1796.5	1257.1	618.5	286.2
77.5°	100.3	100.6	141.1	270.8	562.6	1002.8	1022.5	1080.2	681.5	272.5	99.6
80°	53.4	56.9	74.9	127.9	291.9	493.9	491.4	540.1	302.3	133.6	33.3
82.5°	24.0	26.5	42.3	67.0	142.5	187.3	202.0	221.0	129.6	85.2	14.7
85°	7.2	8.6	20.8	33.7	51.6	54.1	60.5	78.1	73.4	60.5	7.5
87.5°	1.1	1.1	8.6	9.3	7.5	9.7	10.0	11.1	23.6	22.2	3.9
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: P450710
 CATALOG NUMBER: GALN-SA1C-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	436.2	436.2	436.2	436.2	436.2	436.2	436.2	436.2	436.2	436.2	436.2
2.5°	436.9	434.4	425.5	418.0	411.5	407.6	402.9	400.0	398.6	397.5	397.9
5°	438.7	432.6	417.2	405.1	395.7	385.7	378.9	375.0	373.2	370.3	370.3
7.5°	448.8	439.1	417.6	399.0	382.9	369.2	356.4	351.7	348.5	347.8	347.0
10°	463.1	450.9	421.5	395.7	372.8	354.2	335.9	319.8	307.3	299.8	298.7
12.5°	481.0	463.4	427.6	393.6	364.2	331.3	282.9	250.3	228.5	221.7	222.8
15°	497.5	478.5	433.7	391.8	348.5	274.7	219.9	182.7	171.6	170.5	170.8
17.5°	517.2	494.6	440.9	389.3	305.1	209.9	163.3	153.3	155.4	159.0	158.7
20°	537.6	511.8	449.5	374.3	243.5	157.9	144.3	145.4	148.6	151.9	152.6
22.5°	559.4	531.5	459.5	338.1	185.9	137.5	136.8	138.2	141.5	145.0	145.8
25°	589.5	556.2	467.0	290.8	140.8	127.1	128.6	131.1	133.9	137.9	138.6
27.5°	628.2	589.5	471.0	229.2	121.8	117.8	118.2	121.8	125.4	128.9	128.9
30°	678.3	629.3	463.1	173.3	112.5	108.9	107.4	109.6	114.2	117.8	118.2
32.5°	723.1	666.9	442.3	132.5	105.7	100.6	97.1	97.4	99.2	101.4	101.7
35°	767.9	703.4	406.9	111.4	98.5	92.8	87.4	84.5	83.1	82.0	83.1
37.5°	825.2	748.9	359.6	101.4	92.4	85.2	77.7	71.6	66.6	63.4	64.1
40°	898.9	811.9	303.7	94.9	86.7	78.1	68.0	60.2	51.6	48.7	47.3
42.5°	1020.7	907.5	245.0	89.5	80.9	70.6	58.0	47.3	39.4	36.5	37.2
45°	1213.0	1028.2	188.7	83.8	75.2	62.3	48.7	37.2	30.8	29.4	30.1
47.5°	1468.0	1184.4	145.4	77.4	68.0	53.4	38.3	29.4	25.4	25.1	24.7
50°	1708.0	1329.8	121.4	70.2	59.5	44.4	31.5	24.7	22.2	21.8	21.8
52.5°	1925.0	1434.0	98.8	62.0	50.1	36.5	26.5	21.8	19.7	18.6	18.6
55°	2118.1	1502.1	80.2	51.9	39.4	29.0	22.9	19.7	17.2	15.8	15.4
57.5°	2263.8	1510.3	60.2	41.5	29.4	22.6	19.7	17.2	14.3	12.5	11.8
60°	2326.1	1439.0	44.4	31.5	21.8	17.9	15.8	14.0	10.7	9.0	8.6
62.5°	2263.5	1300.4	32.9	24.0	16.8	13.3	11.1	10.4	7.5	5.4	5.0
65°	2038.9	1100.2	26.1	18.3	12.5	9.7	7.2	6.8	4.7	2.5	2.1
67.5°	1633.5	861.7	20.8	13.6	9.0	6.4	4.7	4.3	2.5	0.7	0.7
70°	1062.3	550.8	16.8	10.0	5.7	4.3	2.9	2.1	1.4	0.4	0.0
72.5°	525.4	257.5	13.6	7.9	3.9	2.1	1.1	0.7	1.1	0.0	0.0
75°	203.8	91.7	10.0	5.4	2.1	1.1	0.7	0.0	0.4	0.0	0.0
77.5°	67.7	30.4	6.1	2.9	1.4	0.7	0.0	0.0	0.0	0.0	0.0
80°	25.1	11.8	3.2	1.8	0.7	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	10.0	4.7	2.1	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.0	2.9	1.4	1.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	2.1	1.4	1.1	0.7	0.4	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)