

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: P450816

Luminaire Tested: **GALN-SA1C-827-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450816
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-SA1C-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA 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: 3909 lumens
Efficiency: N/A
Efficacy: 68.6 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

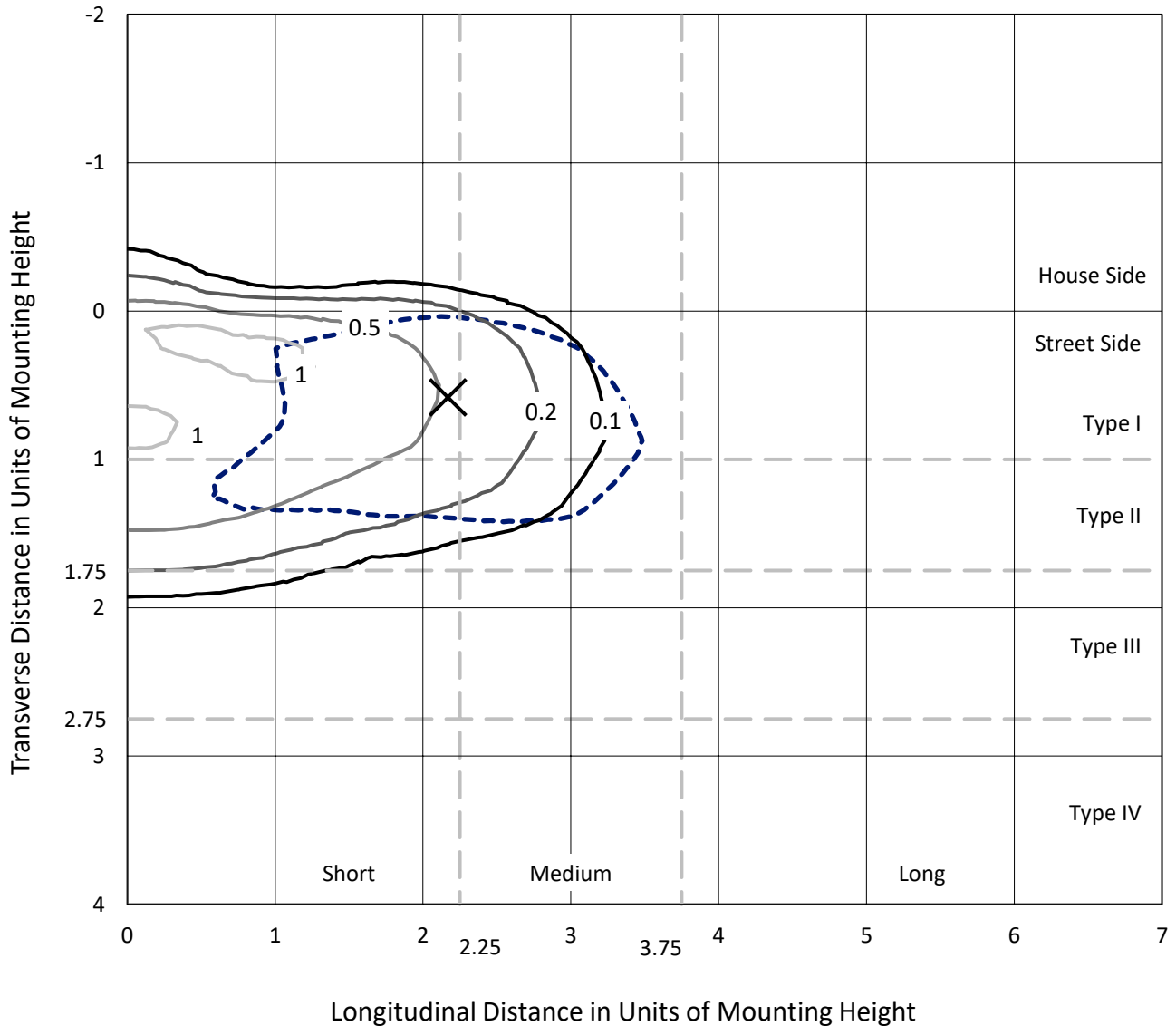
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

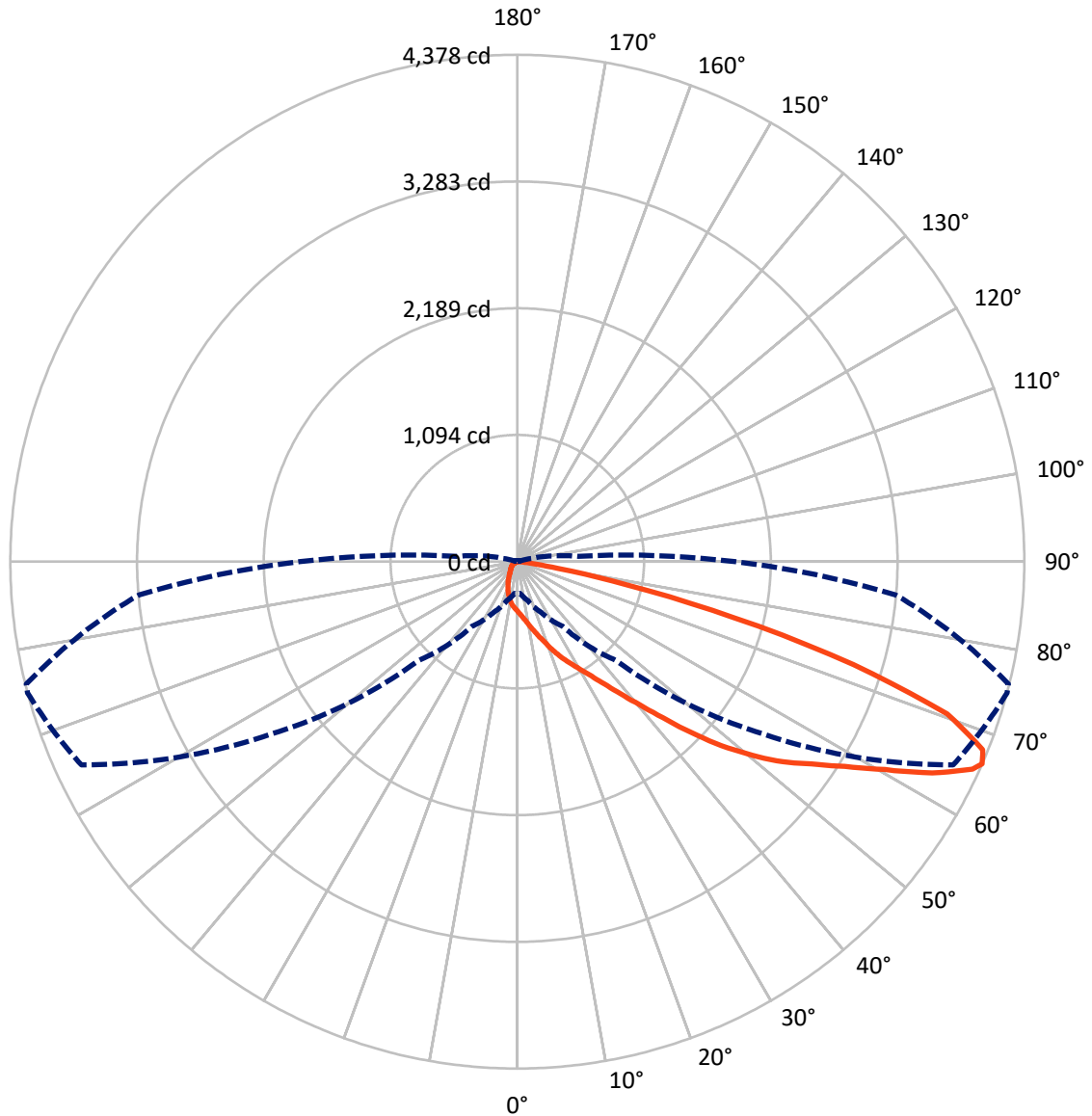
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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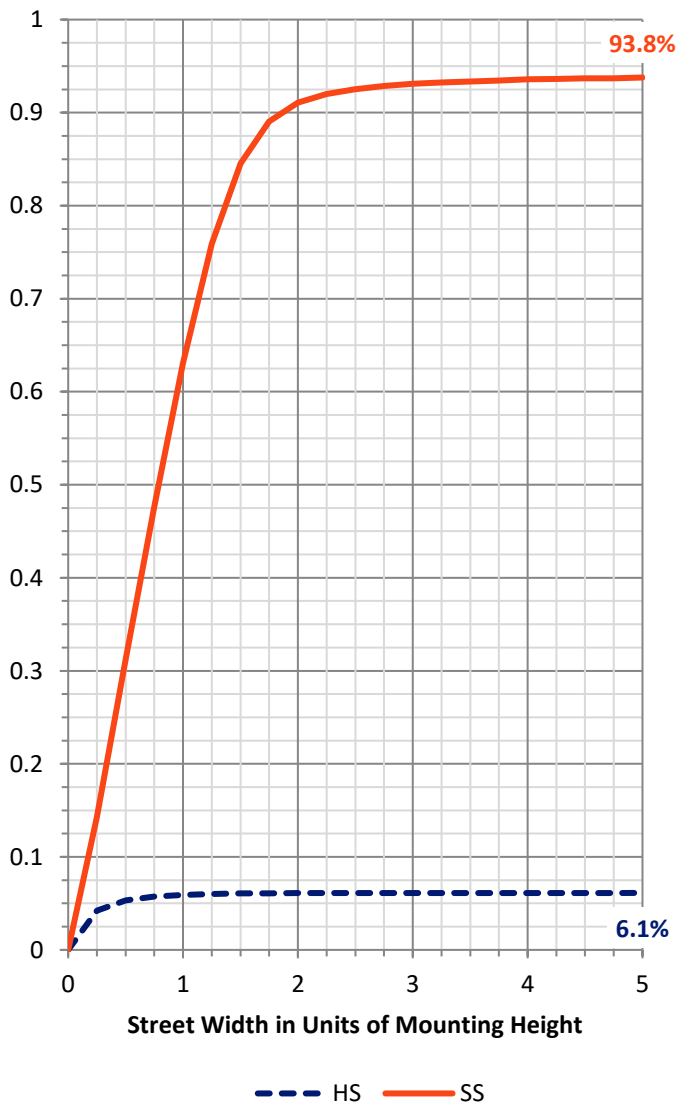
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	241.3	0.0	241.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	3667.7	0.0	3667.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	3909.0	0.0	3909.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.2	1.1
10°-20°	121.3	3.1
20°-30°	209.5	5.4
30°-40°	378.0	9.7
40°-50°	682.8	17.5
50°-60°	1064.5	27.2
60°-70°	1011.2	25.9
70°-80°	379.0	9.7
80°-90°	21.4	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°	3909.0	100.0
0°-180°	3909.0	100.0



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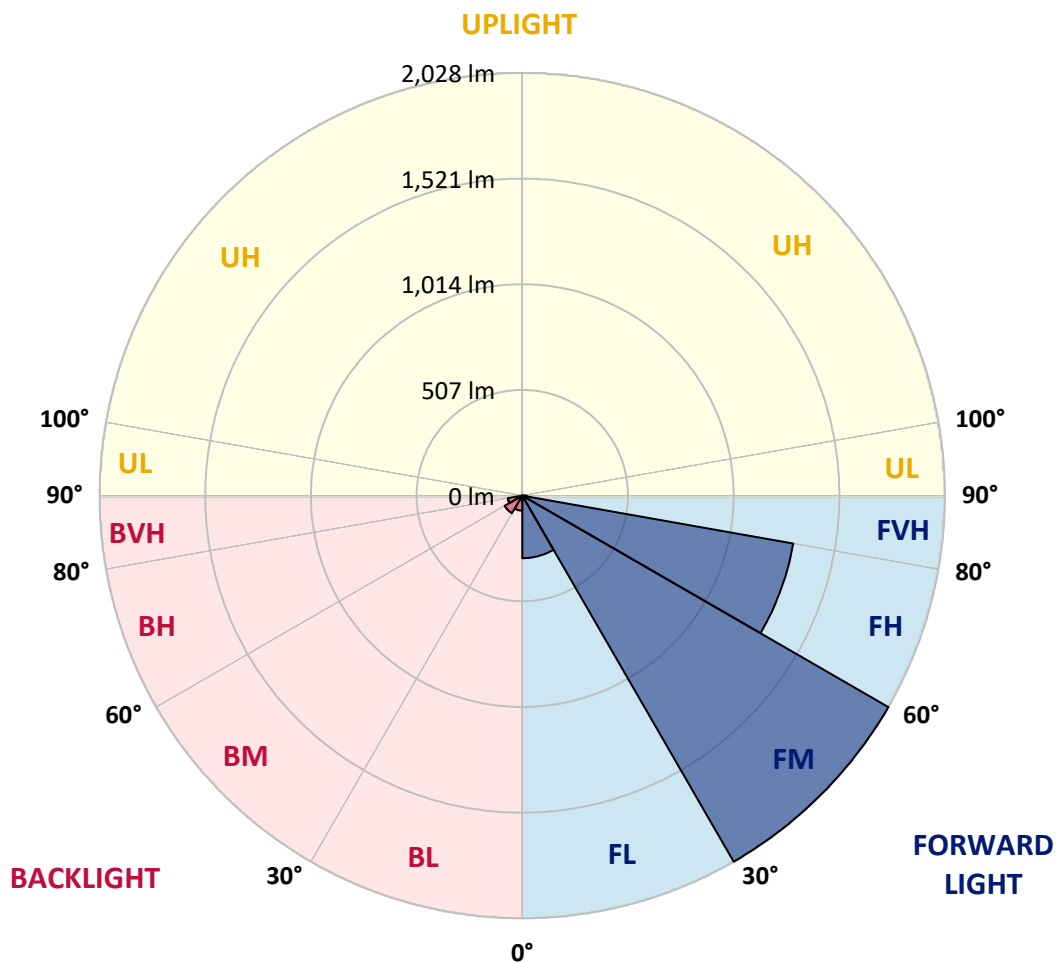
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	300.0	7.7			
FM (30°-60°)	2027.6	51.9			
FH (60°-80°)	1319.8	33.8			G1/1800
FVH (80°-90°)	20.3	0.5			G1/100
BL (0°-30°)	72.1	1.8	B0/110		
BM (30°-60°)	97.7	2.5	B0/220		
BH (60°-80°)	70.5	1.8	B0/110		G0/110
BVH (80°-90°)	1.1	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5
2.5°	510.7	504.4	506.4	503.5	496.9	487.0	478.4	465.9	453.5	451.5	437.6
5°	578.1	576.3	574.0	565.6	561.0	546.0	528.1	506.7	481.0	476.3	451.2
7.5°	624.0	623.2	624.3	620.0	615.9	602.4	583.3	554.1	514.2	511.6	469.7
10°	639.1	641.4	645.7	652.6	659.0	654.7	640.2	603.8	557.3	549.8	490.8
12.5°	630.4	633.0	643.4	661.9	682.4	694.3	688.5	661.9	602.9	596.9	514.5
15°	608.1	611.3	626.1	654.7	691.4	724.9	739.4	720.3	656.1	646.3	543.1
17.5°	575.2	579.8	600.9	638.8	689.1	746.9	787.6	781.3	712.8	703.5	574.3
20°	550.3	553.8	571.7	615.1	679.2	759.0	833.6	851.5	782.7	766.8	611.0
22.5°	566.8	568.0	574.0	600.0	661.6	762.2	874.1	924.6	857.0	842.8	649.2
25°	647.4	635.9	629.8	624.0	657.9	759.3	910.8	1000.9	931.0	916.0	687.0
27.5°	774.6	769.4	738.8	697.7	689.9	763.1	935.0	1073.2	1000.7	984.5	724.0
30°	913.1	904.1	885.3	825.2	764.8	789.7	952.7	1143.4	1083.0	1061.6	757.9
32.5°	1040.2	1046.0	1018.0	956.1	886.2	846.3	975.5	1220.0	1177.5	1151.0	797.2
35°	1188.5	1200.1	1157.0	1097.8	1016.0	948.6	1020.0	1306.5	1297.5	1264.0	857.9
37.5°	1339.1	1346.1	1319.7	1236.5	1162.8	1078.7	1103.8	1413.1	1445.2	1416.6	930.4
40°	1465.7	1475.3	1455.9	1381.9	1303.3	1229.3	1225.5	1529.3	1620.9	1591.4	1038.5
42.5°	1562.5	1569.8	1570.3	1518.0	1447.2	1413.7	1380.7	1677.6	1841.2	1807.1	1164.0
45°	1684.8	1695.2	1689.1	1653.6	1600.7	1594.6	1577.6	1856.8	2104.8	2061.7	1326.7
47.5°	1873.8	1880.8	1865.7	1823.8	1770.1	1779.6	1769.5	2057.7	2373.6	2336.6	1495.2
50°	2005.1	2016.6	2038.0	2054.8	2015.8	1980.5	1950.4	2245.3	2628.8	2595.6	1667.5
52.5°	2003.6	2022.7	2090.3	2174.7	2260.0	2249.3	2162.9	2452.5	2872.5	2831.4	1829.3
55°	1868.6	1905.6	2005.1	2154.8	2390.9	2508.6	2469.3	2692.4	3082.9	3055.1	2016.9
57.5°	1590.0	1612.5	1750.7	1960.0	2317.8	2630.5	2824.2	3017.6	3335.2	3322.2	2308.3
60°	1069.4	1079.6	1257.3	1516.0	1973.3	2508.9	3084.3	3410.9	3645.9	3639.6	2648.5
62.5°	612.8	617.1	746.0	964.2	1404.1	2126.2	3106.3	3896.2	4018.5	4022.0	3042.1
65°	329.8	332.1	436.2	565.9	854.4	1515.4	2793.3	4162.2	4319.7	4326.3	3286.1
66°	284.7	273.7	347.1	482.4	679.8	1206.2	2595.3	4152.6	4377.5	4370.3	3277.4
67.5°	216.5	226.3	277.2	370.8	503.8	857.6	2142.6	3967.9	4333.6	4311.0	3144.2
70°	154.9	159.0	197.4	264.5	343.1	470.6	1369.2	3295.6	3938.7	3908.4	2739.2
72.5°	100.0	104.3	139.9	191.3	248.0	257.0	766.5	2381.1	3036.6	3032.3	2062.9
75°	71.4	75.4	92.5	137.0	186.4	159.0	369.1	1604.7	1930.5	1917.5	1276.1
77.5°	51.7	53.8	61.9	89.6	133.2	113.9	171.1	857.0	961.1	1006.4	563.9
80°	29.8	31.5	43.1	54.6	90.2	77.8	81.8	344.0	354.7	337.6	176.3
82.5°	14.7	16.8	25.7	37.3	56.4	52.3	37.6	103.5	109.3	106.4	44.5
85°	3.5	4.3	14.5	24.6	27.5	23.4	18.2	30.3	37.6	36.7	17.1
87.5°	0.3	0.6	5.2	4.3	4.6	7.8	6.4	7.8	12.1	11.3	6.1
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°	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5
2.5°	431.2	425.8	409.9	394.2	381.2	367.7	355.2	348.0	345.1	341.9	343.4
5°	437.3	424.0	391.9	364.2	337.0	313.9	295.4	283.5	277.8	276.9	275.5
7.5°	445.4	422.6	372.9	329.5	294.0	268.2	247.1	230.1	224.9	220.2	216.5
10°	455.2	420.0	349.2	293.1	255.2	222.8	195.1	174.9	164.5	161.6	163.6
12.5°	465.6	415.1	324.3	259.6	215.9	174.6	148.9	138.7	135.8	134.7	135.0
15°	476.0	409.0	298.3	227.2	172.0	139.3	127.5	124.9	123.7	123.1	122.6
17.5°	485.6	399.2	269.1	195.7	139.3	119.1	114.7	112.4	110.1	109.3	107.8
20°	496.9	387.9	242.8	160.4	117.9	107.8	102.6	98.3	94.8	92.5	92.2
22.5°	507.6	373.4	215.3	133.0	107.5	96.8	88.4	83.8	79.8	76.9	77.8
25°	513.3	355.8	190.8	115.9	98.0	85.8	76.6	70.8	66.5	65.0	64.7
27.5°	513.3	334.1	166.8	106.1	89.3	76.0	66.5	61.0	58.1	56.1	56.4
30°	509.3	310.1	144.5	98.6	81.8	67.3	58.4	53.5	51.2	49.7	49.4
32.5°	506.1	287.3	125.4	91.3	74.0	59.8	52.0	48.3	46.0	44.5	44.5
35°	511.0	267.6	110.7	84.1	66.8	54.1	47.1	43.6	41.3	40.2	39.9
37.5°	524.0	249.7	99.4	76.3	60.1	49.1	43.6	39.6	37.3	35.8	35.3
40°	556.1	239.6	91.0	69.1	53.8	45.1	39.6	35.8	33.0	31.5	31.2
42.5°	607.6	239.9	83.0	62.4	48.8	41.6	36.1	31.8	28.6	27.2	26.9
45°	685.0	250.9	76.6	56.1	44.5	37.9	32.4	27.7	24.9	23.4	23.4
47.5°	777.8	272.3	71.1	50.6	40.5	34.4	28.6	24.0	21.1	19.9	19.9
50°	878.4	300.0	65.6	44.8	37.0	30.6	24.6	20.8	18.5	17.6	17.6
52.5°	981.0	333.6	60.1	40.2	33.2	26.6	21.1	18.5	16.5	15.9	15.6
55°	1115.7	376.3	54.3	35.3	29.2	22.8	18.8	16.2	13.9	13.0	12.7
57.5°	1322.9	440.8	48.0	30.9	24.0	19.1	16.2	13.6	11.0	9.5	9.2
60°	1572.9	519.4	41.3	27.2	19.4	15.6	13.0	10.4	8.1	6.4	6.1
62.5°	1807.1	569.4	35.0	22.8	15.3	11.9	9.2	7.8	5.8	4.0	3.8
65°	1910.5	552.6	28.9	18.5	12.1	8.4	6.1	5.5	3.5	1.7	1.4
66°	1876.1	527.8	26.6	16.8	11.0	7.2	5.2	4.6	2.6	0.9	0.9
67.5°	1774.7	469.1	23.1	14.5	9.5	5.8	4.0	3.5	1.4	0.3	0.0
70°	1520.6	379.5	18.2	10.7	6.9	4.0	2.3	1.7	0.9	0.0	0.0
72.5°	1168.0	282.7	14.5	8.1	4.9	2.3	1.2	0.6	0.9	0.0	0.0
75°	715.7	161.6	11.3	6.1	3.2	1.4	0.9	0.0	0.9	0.3	0.0
77.5°	317.7	72.5	7.5	4.0	2.3	1.2	0.6	0.0	0.6	0.3	0.0
80°	80.4	23.7	4.3	2.9	1.7	0.9	0.3	0.0	0.6	0.6	0.3
82.5°	22.0	8.7	3.2	2.3	1.4	0.9	0.3	0.0	0.6	0.6	0.6
85°	8.7	4.0	2.9	2.3	1.7	0.9	0.3	0.0	0.6	0.6	0.6
87.5°	4.0	2.9	2.9	2.6	2.0	0.9	0.3	0.0	0.6	0.3	0.6
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)