

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: P650711

Luminaire Tested: **GALN-SA1C-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4684.4 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

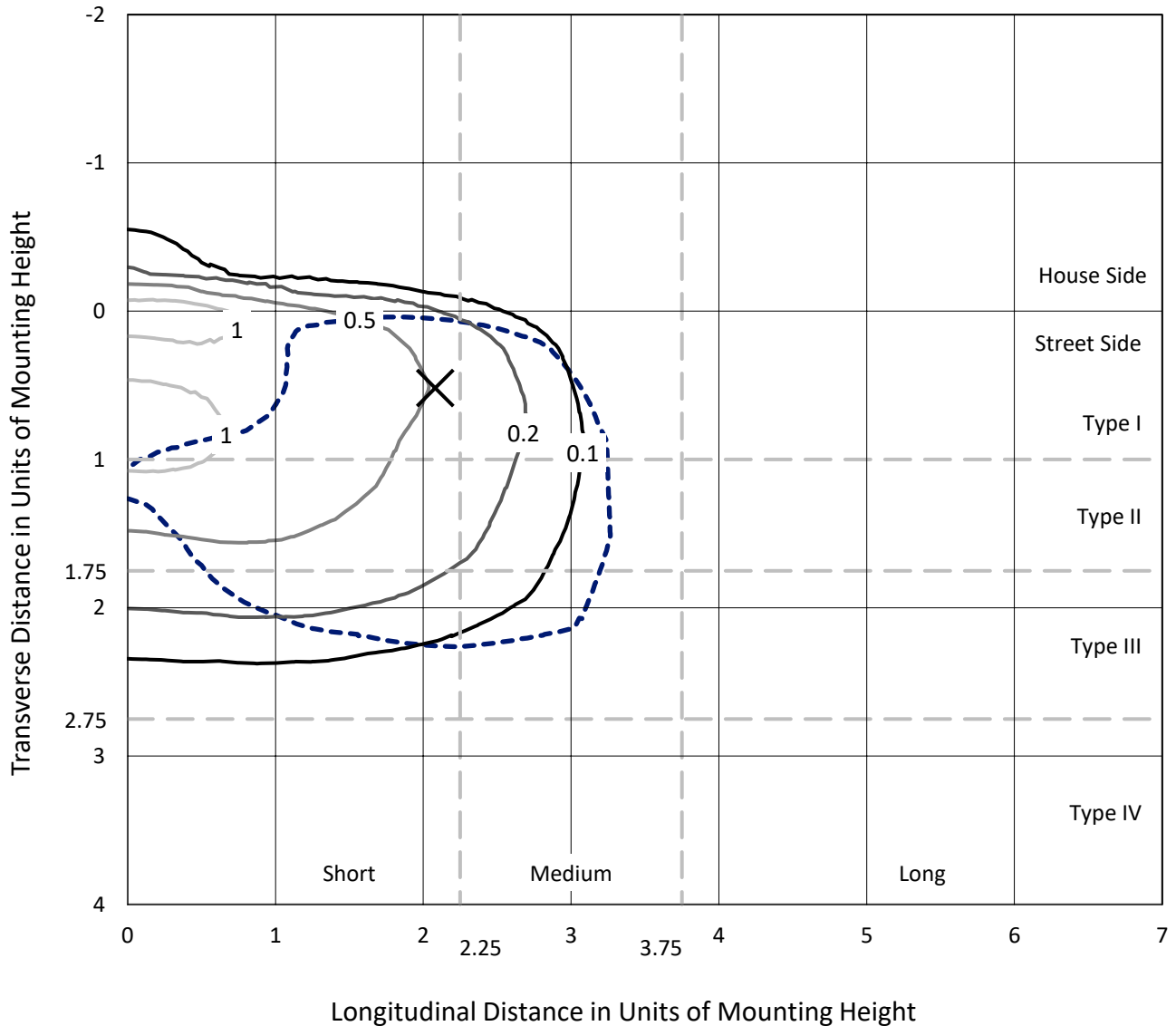
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

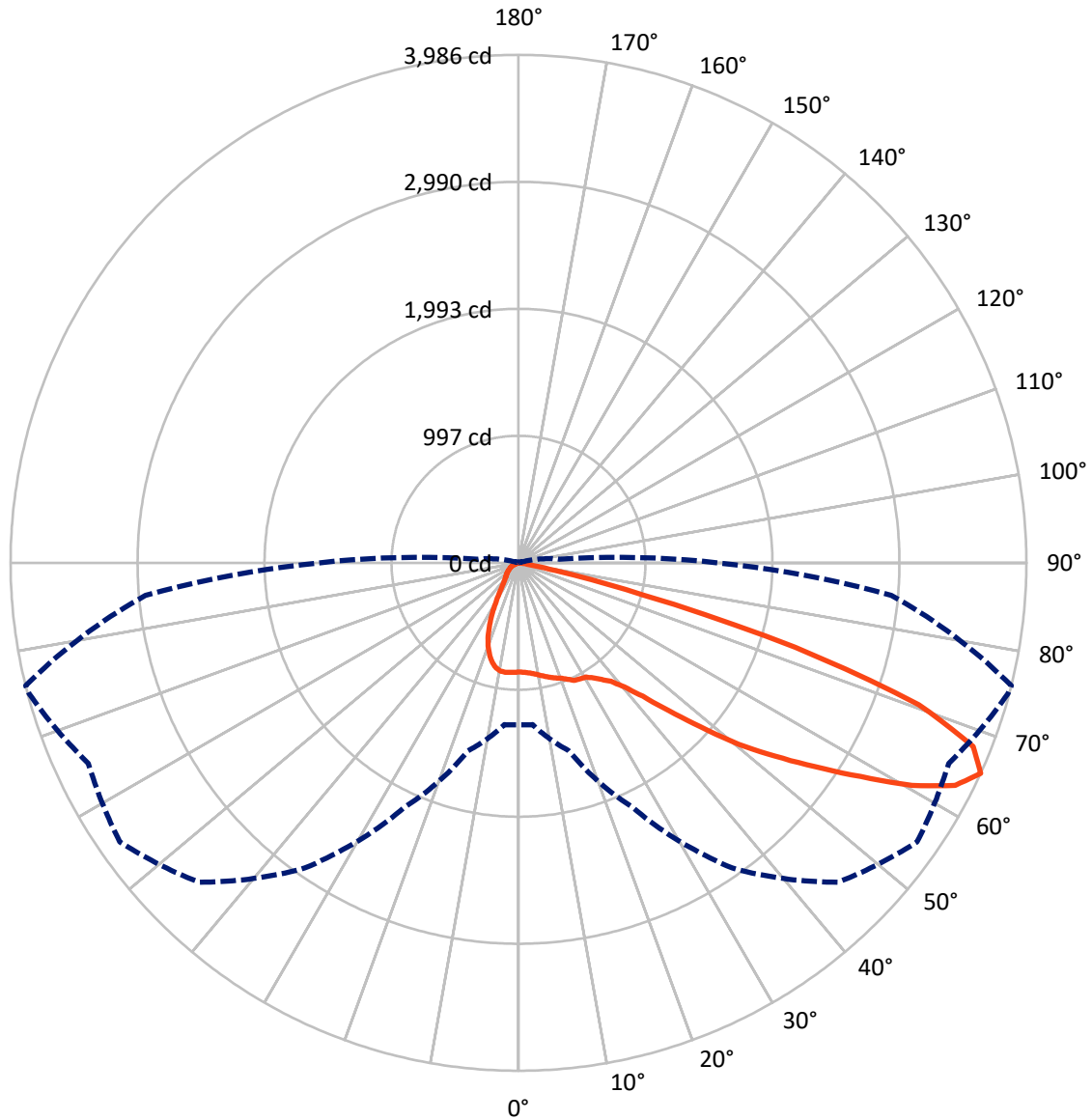
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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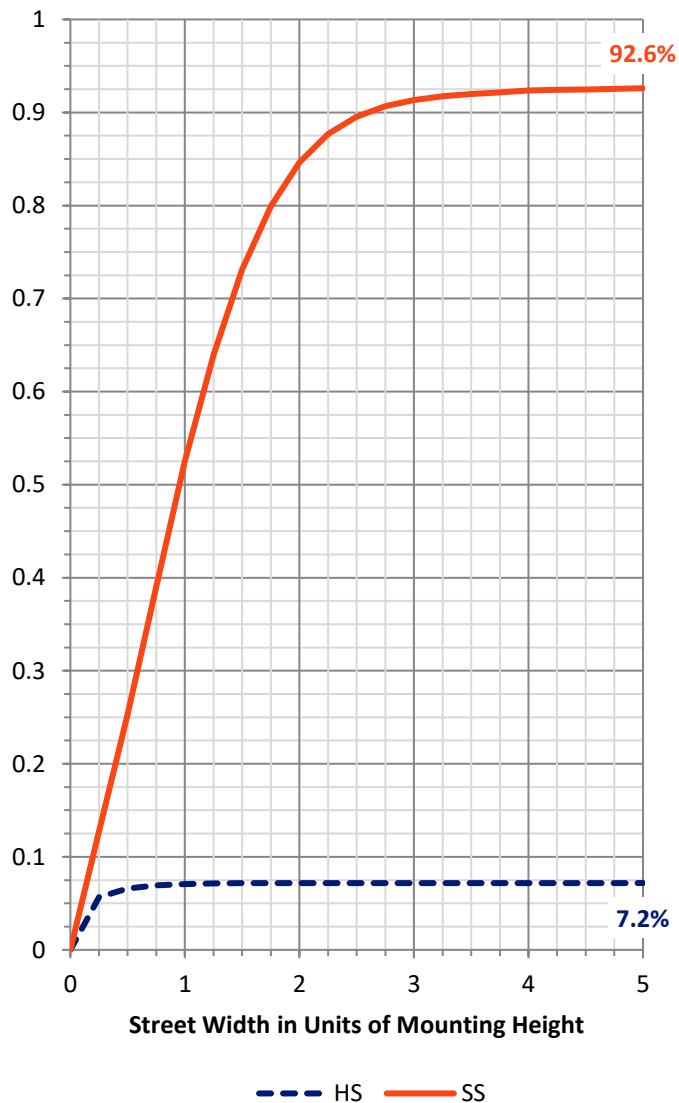
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	338.3	0.0	338.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	4346.1	0.0	4346.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	4684.4	0.0	4684.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	1.5
10°-20°	157.2	3.4
20°-30°	253.3	5.4
30°-40°	440.4	9.4
40°-50°	727.7	15.5
50°-60°	1124.1	24.0
60°-70°	1372.7	29.3
70°-80°	521.0	11.1
80°-90°	17.4	0.4
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°	4684.4	100.0
0°-180°	4684.4	100.0

Coefficient of Utilization

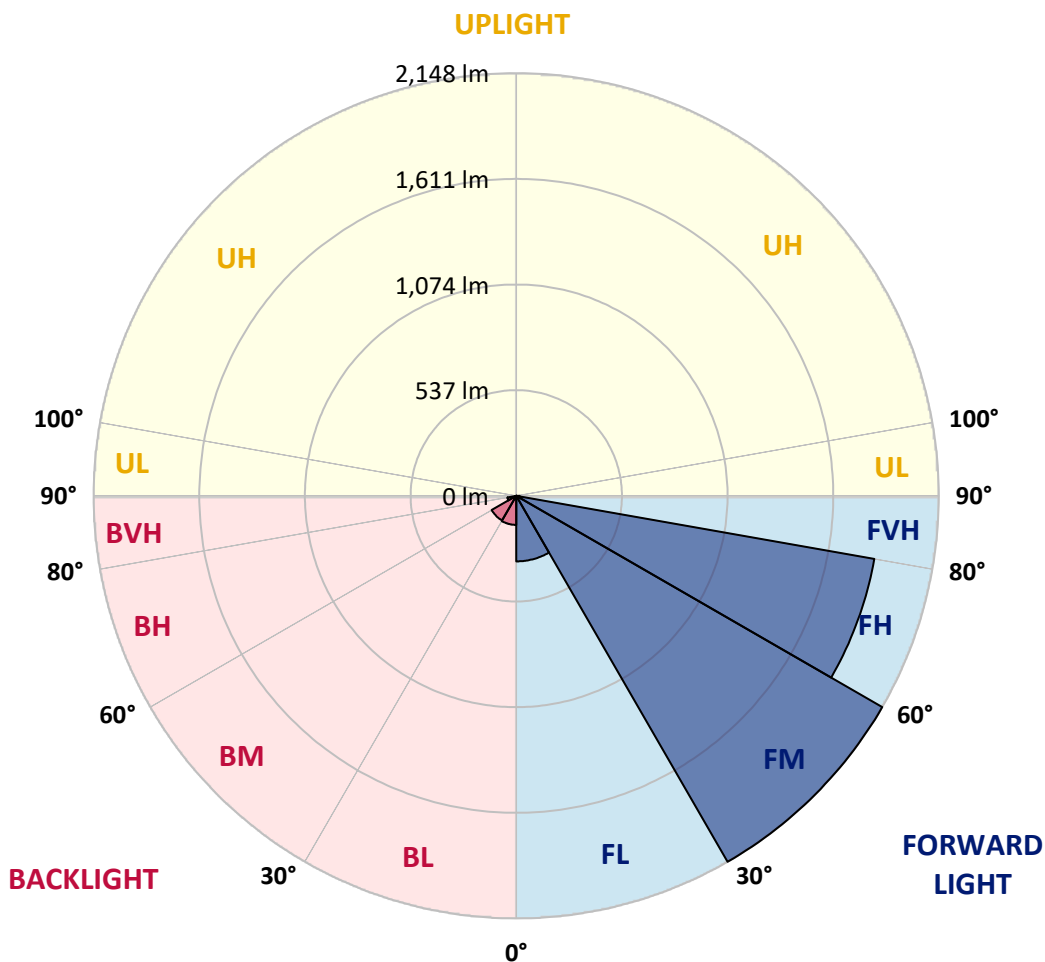


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	333.2	7.1			
FM (30°-60°)	2147.9	45.9			
FH (60°-80°)	1847.8	39.4			G2/5000
FVH (80°-90°)	17.1	0.4			G1/100
BL (0°-30°)	147.8	3.2	B1/500		
BM (30°-60°)	144.4	3.1	B0/220		
BH (60°-80°)	45.9	1.0	B0/110		G0/110
BVH (80°-90°)	0.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9
2.5°	818.9	819.2	821.2	826.2	833.8	840.1	845.4	854.0	859.9	860.6	862.5
5°	762.4	758.3	762.4	775.2	786.8	804.3	825.9	847.3	866.5	867.8	877.1
7.5°	698.9	702.2	708.5	721.7	743.4	770.3	801.4	839.7	876.1	879.4	897.6
10°	634.4	641.6	651.9	672.0	702.5	737.2	779.5	834.4	891.3	895.9	927.4
12.5°	574.8	578.1	590.7	617.8	655.5	704.4	763.0	831.4	908.2	913.8	959.1
15°	529.2	533.4	544.4	568.9	610.8	673.7	749.4	830.5	924.7	932.7	990.9
17.5°	520.6	523.2	527.8	544.4	581.1	649.3	737.2	830.2	940.6	950.2	1020.3
20°	556.0	553.6	549.0	547.3	567.5	630.3	728.3	832.8	955.8	966.7	1051.4
22.5°	644.6	647.6	620.5	588.4	581.7	627.4	727.0	845.4	979.9	992.9	1086.2
25°	832.8	810.0	767.7	690.9	633.0	645.6	741.8	875.1	1008.0	1022.3	1117.5
27.5°	1040.8	1033.8	968.1	841.7	733.9	684.0	768.3	897.9	1017.4	1031.9	1135.4
30°	1245.2	1253.4	1178.1	1038.5	880.4	755.0	793.1	906.5	1025.6	1040.8	1158.2
32.5°	1434.7	1444.6	1378.5	1240.2	1053.0	878.1	835.8	939.9	1060.3	1075.9	1196.2
35°	1583.9	1585.2	1535.2	1425.1	1241.6	1027.6	928.0	998.4	1107.3	1125.5	1236.6
37.5°	1720.8	1718.8	1660.3	1565.4	1398.7	1176.1	1044.1	1066.0	1160.8	1179.8	1294.8
40°	1822.4	1823.6	1804.8	1715.5	1545.2	1313.3	1136.0	1129.1	1250.8	1280.3	1379.5
42.5°	1890.1	1902.3	1911.6	1866.3	1729.3	1482.3	1277.3	1264.4	1406.9	1431.4	1499.2
45°	1945.0	1966.8	2013.2	2010.8	1906.3	1689.7	1471.1	1444.6	1628.2	1654.3	1651.6
47.5°	1985.0	2007.2	2083.9	2130.3	2072.6	1890.8	1714.8	1692.0	1892.4	1920.8	1820.0
50°	2005.5	2032.0	2129.9	2219.6	2202.7	2084.6	1992.7	1994.0	2211.6	2239.1	2015.1
52.5°	1957.6	1992.0	2154.4	2315.8	2348.5	2270.1	2253.0	2296.6	2495.7	2519.1	2191.4
55°	1804.4	1847.8	2121.0	2397.8	2517.5	2489.1	2548.6	2615.1	2806.2	2821.5	2372.3
57.5°	1707.6	1753.6	2022.4	2467.6	2720.6	2764.2	2858.5	2907.1	3126.8	3165.4	2580.0
60°	1625.9	1661.9	1941.4	2482.5	2926.9	3100.9	3192.5	3242.8	3522.3	3547.4	2808.5
62.5°	1489.9	1531.3	1804.4	2378.6	3030.8	3370.5	3560.3	3537.8	3828.2	3845.7	2948.8
65°	1271.3	1275.0	1526.7	2117.6	2923.7	3545.4	3818.6	3724.4	3974.4	3986.3	2937.9
67.5°	948.9	983.9	1174.5	1664.6	2469.6	3396.0	3902.2	3729.3	3882.1	3849.0	2704.7
70°	611.2	638.0	796.1	1154.3	1780.6	2834.0	3624.8	3473.7	3407.1	3333.7	2213.9
72.5°	282.1	316.5	473.0	659.5	1056.0	2018.7	2942.5	2822.1	2452.4	2271.1	1407.2
75°	123.0	131.6	233.5	347.9	495.1	1067.6	1940.0	1751.9	1107.6	1011.7	563.2
77.5°	75.1	80.7	122.4	186.5	194.4	406.8	1045.1	764.3	342.3	301.9	152.8
80°	51.0	57.2	89.0	97.6	66.4	113.5	392.2	204.0	69.1	66.2	32.7
82.5°	24.8	31.5	65.9	54.6	28.8	36.4	114.1	43.6	20.2	18.8	11.6
85°	3.6	6.3	37.0	35.7	12.9	8.6	20.2	10.9	7.0	6.6	5.3
87.5°	0.0	0.0	12.5	5.6	1.3	1.3	2.4	2.4	2.6	2.4	2.6
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°	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9	856.9
2.5°	863.5	865.2	858.9	850.0	840.4	830.8	817.2	805.0	797.7	802.0	791.5
5°	879.1	877.8	861.2	834.1	798.0	754.7	711.7	675.0	663.1	645.2	643.3
7.5°	900.5	896.9	861.9	799.7	718.4	637.0	557.6	505.0	474.9	449.4	450.1
10°	930.7	920.1	854.3	739.2	605.3	482.6	381.3	311.8	281.8	272.2	264.6
12.5°	961.8	941.2	833.1	657.5	471.3	329.8	231.9	189.5	171.0	165.0	164.3
15°	989.5	957.1	796.1	559.3	342.6	210.7	158.1	144.2	141.9	142.2	141.9
17.5°	1017.0	969.7	744.8	455.1	232.9	151.1	135.9	132.6	133.6	134.9	134.6
20°	1039.8	972.4	679.4	347.2	164.7	132.6	127.7	127.0	128.0	129.0	129.0
22.5°	1064.6	974.3	601.6	240.4	134.6	123.4	120.7	120.7	122.0	123.4	123.7
25°	1083.1	963.4	508.6	172.7	118.7	114.5	113.1	113.5	114.8	115.4	115.1
27.5°	1086.2	932.7	410.1	132.3	107.8	103.5	102.2	103.5	101.8	102.9	102.2
30°	1088.8	893.6	310.2	111.4	97.9	91.2	89.3	87.3	86.0	84.4	84.0
32.5°	1097.0	847.6	226.6	100.2	88.6	81.3	76.7	71.1	66.8	65.5	65.2
35°	1100.7	792.4	166.3	91.2	80.4	72.4	64.2	56.3	50.0	47.6	49.3
37.5°	1114.6	738.8	129.0	84.7	73.1	63.2	52.6	42.6	36.8	35.4	36.1
40°	1143.0	680.6	108.2	79.1	66.8	54.6	41.7	32.0	28.1	26.8	26.5
42.5°	1188.7	622.8	96.2	73.8	60.6	46.0	32.7	25.1	21.9	20.9	20.9
45°	1244.2	567.2	88.0	68.1	53.9	37.0	25.8	20.2	18.2	17.5	17.5
47.5°	1317.3	518.6	81.0	62.5	46.6	29.4	20.9	17.5	16.2	16.6	16.9
50°	1391.4	482.6	73.4	56.3	38.3	24.1	17.8	15.6	15.2	15.6	15.6
52.5°	1447.3	461.4	63.2	47.6	30.1	20.2	15.9	14.5	14.2	13.5	13.5
55°	1522.7	456.7	50.3	38.7	23.8	16.9	14.2	13.2	12.3	11.6	11.3
57.5°	1619.6	462.0	38.7	30.1	18.5	13.9	12.5	10.9	9.6	8.2	8.2
60°	1679.8	450.1	30.1	23.1	13.5	11.3	9.6	7.9	6.3	5.3	5.0
62.5°	1660.6	399.8	23.8	17.2	9.6	8.2	6.3	5.3	3.6	2.6	2.4
65°	1561.7	322.8	19.2	11.9	7.0	5.0	3.3	3.3	1.7	0.3	0.0
67.5°	1366.9	239.1	15.2	7.9	4.0	2.4	1.7	1.0	0.0	0.0	0.0
70°	1112.6	172.7	11.9	5.0	2.4	1.7	0.7	0.3	0.0	0.0	0.0
72.5°	706.4	98.9	9.3	2.9	1.7	0.7	0.0	0.0	0.0	0.0	0.0
75°	273.2	38.7	6.3	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	77.4	18.2	3.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	20.2	7.9	2.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.6	3.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.6	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.3	0.0	0.0	0.0	0.0	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)