

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: P450503

Luminaire Tested: **GALN-SA1B-740-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450503
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-SA1B-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA 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: 4508 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

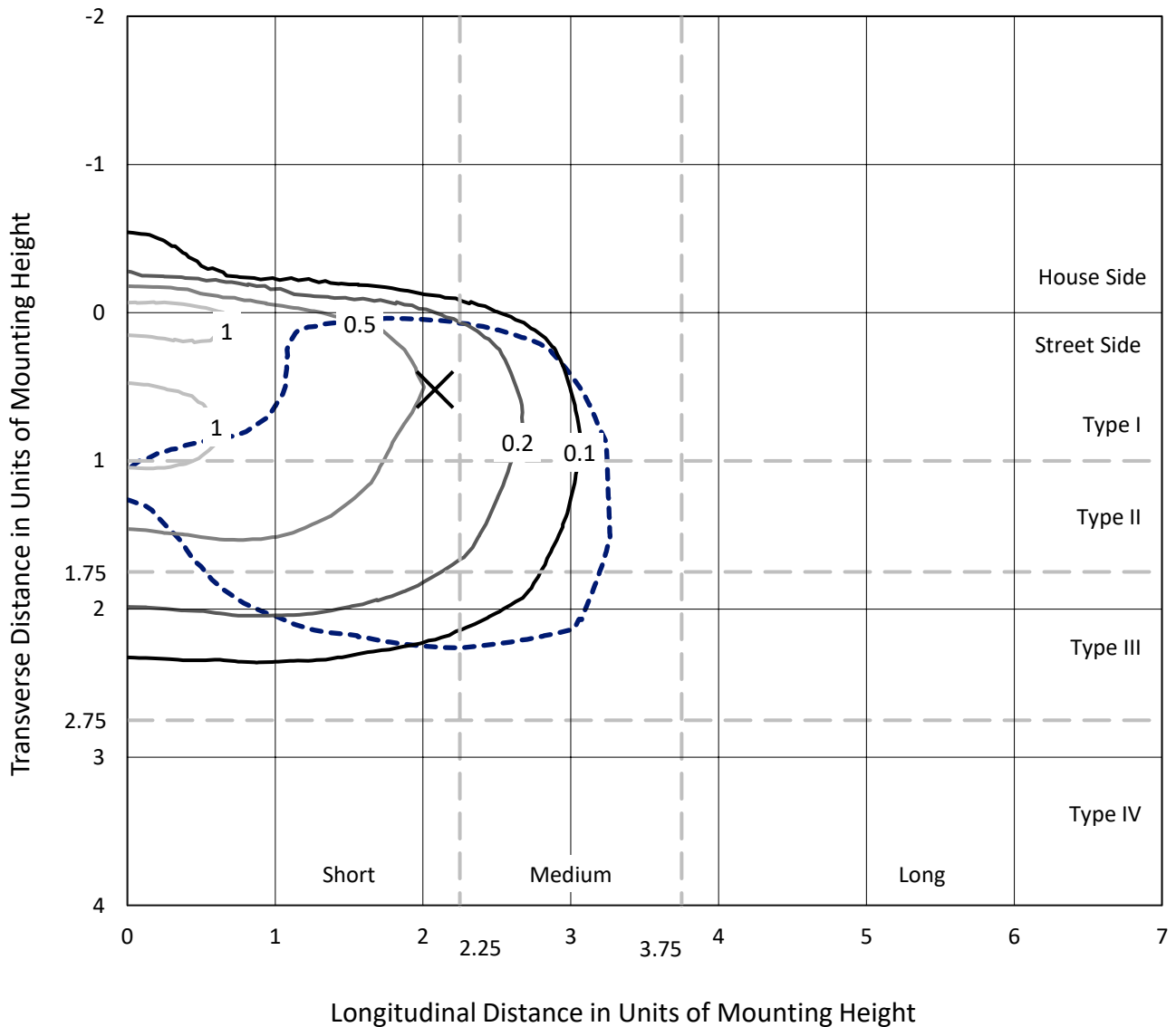
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

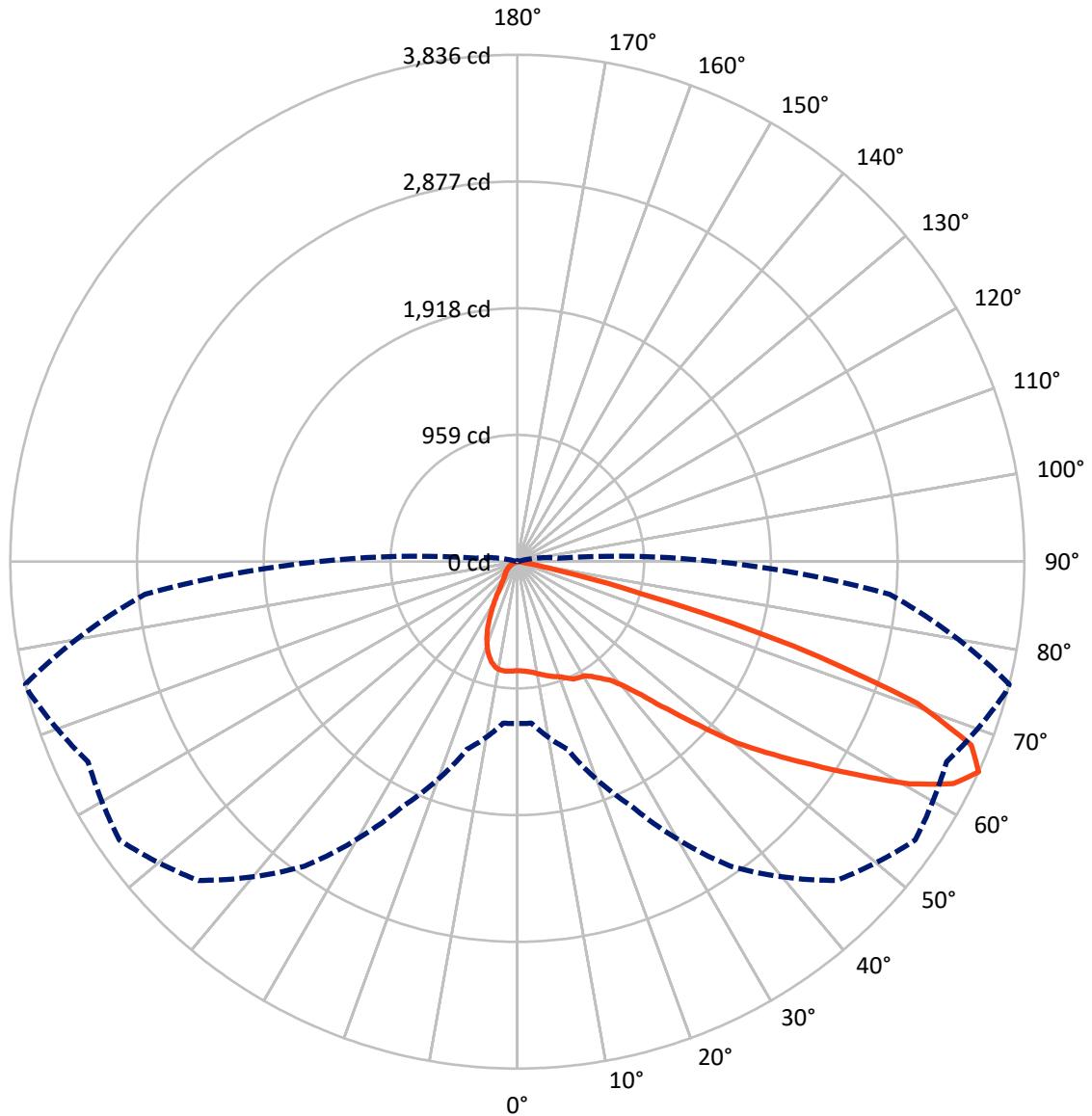
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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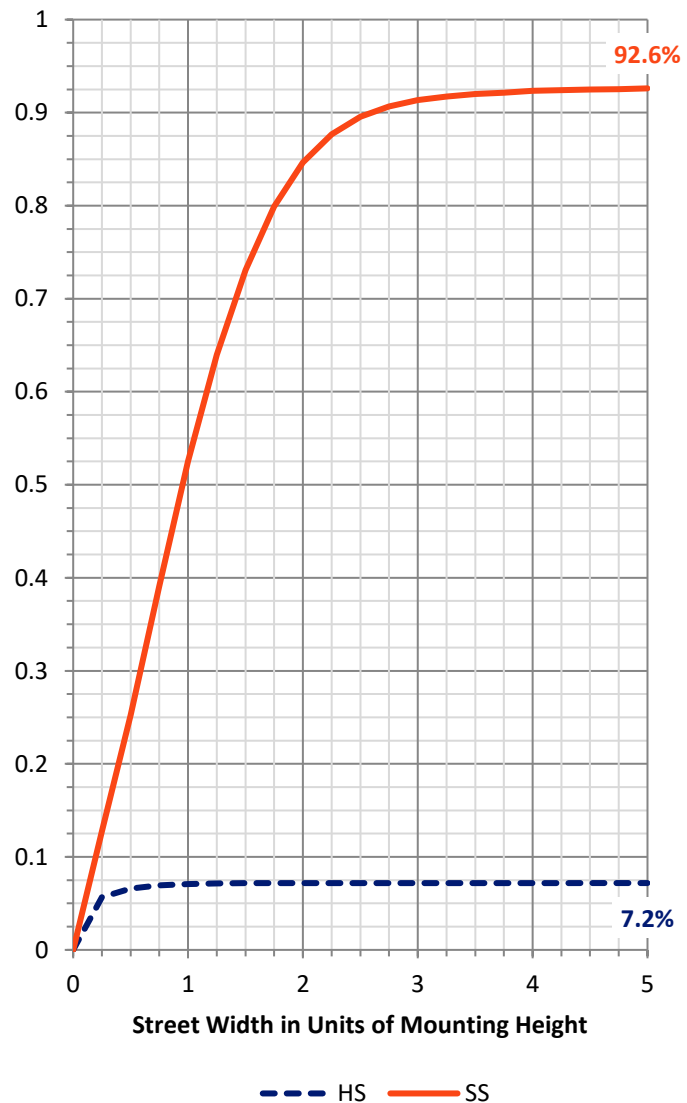
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	325.6	0.0	325.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	4182.4	0.0	4182.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	4508.0	0.0	4508.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	1.5
10°-20°	151.3	3.4
20°-30°	243.7	5.4
30°-40°	423.8	9.4
40°-50°	700.3	15.5
50°-60°	1081.8	24.0
60°-70°	1321.1	29.3
70°-80°	501.4	11.1
80°-90°	16.7	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°	4508.0	100.0
0°-180°	4508.0	100.0



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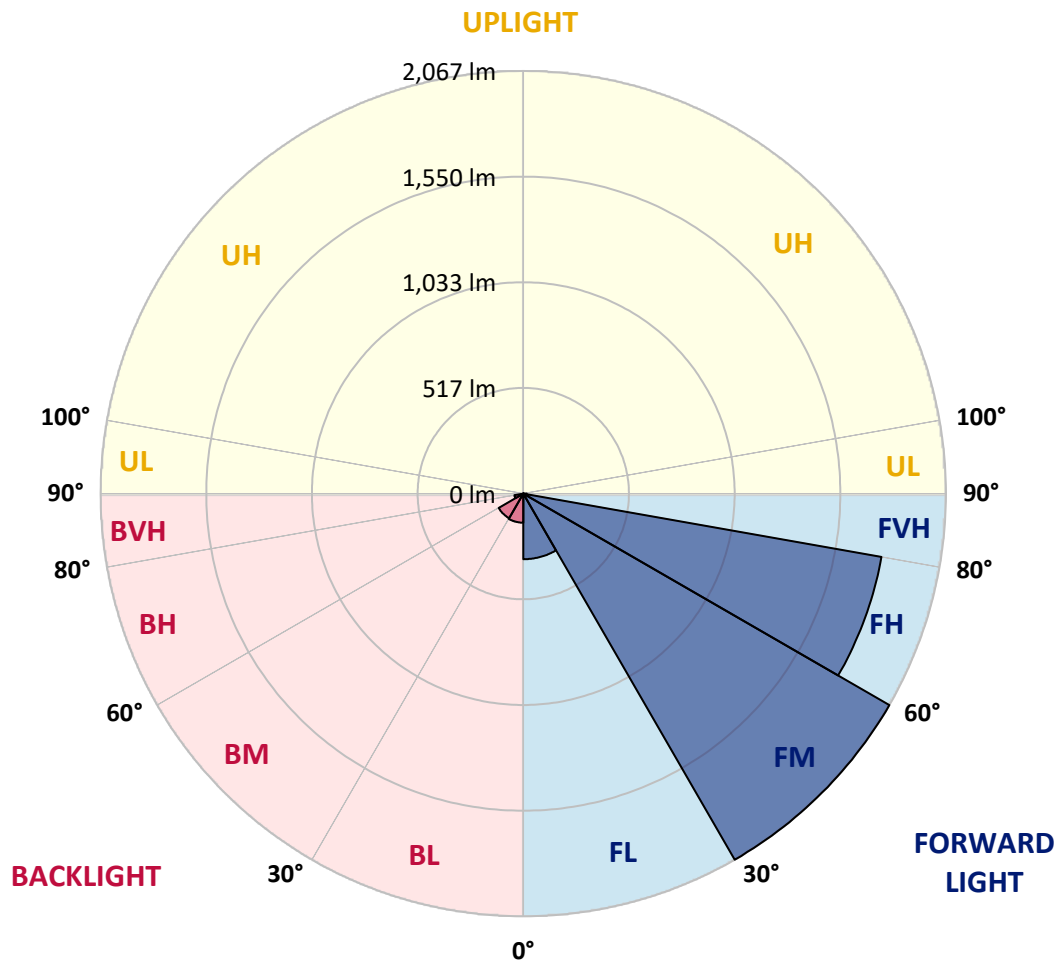
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	320.7	7.1			
FM	(30°-60°)	2067.0	45.9			
FH	(60°-80°)	1778.3	39.4			G1/1800
FVH	(80°-90°)	16.5	0.4			G1/100
BL	(0°-30°)	142.2	3.2	B1/500		
BM	(30°-60°)	138.9	3.1	B0/220		
BH	(60°-80°)	44.2	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	824.7	824.7	824.7	824.7	824.7	824.7	824.7	824.7	824.7	824.7	824.7
2.5°	788.1	788.4	790.3	795.1	802.4	808.4	813.5	821.8	827.5	828.2	830.1
5°	733.6	729.8	733.6	746.0	757.2	774.1	794.7	815.4	833.9	835.2	844.1
7.5°	672.5	675.7	681.8	694.5	715.5	741.3	771.2	808.1	843.1	846.3	863.8
10°	610.5	617.5	627.3	646.7	676.0	709.4	750.2	803.0	857.8	862.2	892.5
12.5°	553.2	556.3	568.4	594.5	630.8	677.9	734.3	800.1	874.0	879.4	923.0
15°	509.2	513.4	523.9	547.4	587.9	648.3	721.2	799.2	889.9	897.5	953.6
17.5°	501.0	503.5	508.0	523.9	559.2	624.8	709.4	798.9	905.2	914.4	981.9
20°	535.0	532.8	528.3	526.7	546.2	606.6	700.8	801.4	919.8	930.3	1011.8
22.5°	620.3	623.2	597.1	566.2	559.9	603.8	699.6	813.5	943.1	955.5	1045.2
25°	801.4	779.5	738.7	664.9	609.2	621.3	713.9	842.2	970.1	983.8	1075.5
27.5°	1001.6	994.9	931.6	810.0	706.3	658.2	739.4	864.1	979.0	993.0	1092.6
30°	1198.3	1206.3	1133.7	999.4	847.3	726.6	763.2	872.4	987.0	1001.6	1114.6
32.5°	1380.7	1390.2	1326.6	1193.5	1013.4	845.0	804.3	904.5	1020.4	1035.4	1151.2
35°	1524.2	1525.5	1477.4	1371.5	1194.8	988.9	893.1	960.9	1065.6	1083.1	1190.0
37.5°	1656.0	1654.1	1597.8	1506.4	1346.0	1131.8	1004.8	1025.8	1117.2	1135.3	1246.1
40°	1753.7	1755.0	1736.8	1650.9	1487.0	1263.9	1093.3	1086.6	1203.7	1232.1	1327.5
42.5°	1819.0	1830.7	1839.6	1796.0	1664.3	1426.5	1229.2	1216.8	1354.0	1377.5	1442.8
45°	1871.8	1892.8	1937.4	1935.1	1834.6	1626.1	1415.7	1390.2	1566.9	1592.0	1589.5
47.5°	1910.3	1931.6	2005.5	2050.0	1994.6	1819.6	1650.3	1628.3	1821.2	1848.6	1751.5
50°	1930.0	1955.5	2049.7	2136.0	2119.7	2006.1	1917.6	1918.9	2128.3	2154.7	1939.3
52.5°	1883.9	1917.0	2073.3	2228.6	2260.1	2184.7	2168.1	2210.1	2401.7	2424.3	2108.9
55°	1736.5	1778.2	2041.1	2307.5	2422.7	2395.4	2452.6	2516.6	2700.6	2715.2	2283.0
57.5°	1643.3	1687.5	1946.3	2374.7	2618.2	2660.2	2750.9	2797.7	3009.0	3046.2	2482.9
60°	1564.7	1599.3	1868.3	2389.0	2816.8	2984.2	3072.3	3120.7	3389.7	3413.8	2702.8
62.5°	1433.8	1473.6	1736.5	2289.1	2916.7	3243.6	3426.3	3404.6	3684.1	3700.9	2837.8
65°	1223.5	1227.0	1469.2	2037.9	2813.6	3411.9	3674.8	3584.1	3824.7	3836.2	2827.3
67.5°	913.1	946.9	1130.2	1601.9	2376.6	3268.1	3755.4	3588.9	3735.9	3704.1	2602.9
70°	588.2	614.0	766.1	1110.8	1713.6	2727.3	3488.3	3342.9	3278.9	3208.2	2130.5
72.5°	271.5	304.6	455.1	634.6	1016.3	1942.8	2831.7	2715.9	2360.0	2185.6	1354.3
75°	118.4	126.7	224.7	334.8	476.5	1027.4	1867.0	1685.9	1065.9	973.6	542.0
77.5°	72.2	77.7	117.8	179.5	187.1	391.5	1005.8	735.5	329.4	290.6	147.0
80°	49.0	55.1	85.6	93.9	64.0	109.2	377.5	196.4	66.5	63.7	31.5
82.5°	23.9	30.2	63.3	52.5	27.7	35.0	109.8	42.0	19.4	18.1	11.1
85°	3.5	6.0	35.6	34.4	12.4	8.3	19.4	10.5	6.7	6.4	5.1
87.5°	0.0	0.0	12.1	5.4	1.3	1.3	2.2	2.2	2.5	2.2	2.5
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°	824.7	824.7	824.7	824.7	824.7	824.7	824.7	824.7	824.7	824.7	824.7
2.5°	831.0	832.6	826.6	818.0	808.7	799.5	786.5	774.7	767.7	771.8	761.6
5°	846.0	844.7	828.8	802.7	768.0	726.3	684.9	649.6	638.1	621.0	619.0
7.5°	866.7	863.2	829.4	769.6	691.3	613.0	536.6	486.0	457.0	432.5	433.2
10°	895.6	885.4	822.1	711.4	582.4	464.4	367.0	300.1	271.2	261.9	254.6
12.5°	925.6	905.8	801.7	632.7	453.5	317.3	223.1	182.4	164.5	158.8	158.2
15°	952.3	921.1	766.1	538.2	329.7	202.7	152.1	138.8	136.5	136.9	136.5
17.5°	978.7	933.2	716.8	437.9	224.1	145.5	130.8	127.6	128.6	129.9	129.5
20°	1000.7	935.7	653.7	334.2	158.5	127.6	122.9	122.2	123.2	124.1	124.1
22.5°	1024.5	937.6	578.9	231.4	129.5	118.7	116.2	116.2	117.4	118.7	119.0
25°	1042.4	927.1	489.5	166.1	114.3	110.1	108.9	109.2	110.4	111.1	110.8
27.5°	1045.2	897.5	394.7	127.3	103.8	99.6	98.3	99.6	98.0	99.0	98.3
30°	1047.8	860.0	298.5	107.3	94.2	87.8	85.9	84.0	82.8	81.2	80.8
32.5°	1055.7	815.7	218.0	96.4	85.3	78.3	73.8	68.4	64.3	63.0	62.7
35°	1059.2	762.6	160.1	87.8	77.3	69.7	61.7	54.1	48.1	45.8	47.4
37.5°	1072.6	711.0	124.1	81.5	70.3	60.8	50.6	41.1	35.3	34.1	34.7
40°	1100.0	655.0	104.1	76.1	64.3	52.5	40.1	30.9	27.1	25.8	25.5
42.5°	1143.9	599.3	92.6	71.0	58.2	44.2	31.5	24.2	21.0	20.1	20.1
45°	1197.4	545.8	84.7	65.6	51.9	35.6	24.8	19.4	17.5	16.9	16.9
47.5°	1267.7	499.1	78.0	60.2	44.9	28.3	20.1	16.9	15.6	15.9	16.2
50°	1339.0	464.4	70.7	54.1	36.9	23.2	17.2	15.0	14.6	15.0	15.0
52.5°	1392.8	444.0	60.8	45.8	29.0	19.4	15.3	14.0	13.7	13.0	13.0
55°	1465.3	439.5	48.4	37.2	22.9	16.2	13.7	12.7	11.8	11.1	10.8
57.5°	1558.6	444.6	37.2	29.0	17.8	13.4	12.1	10.5	9.2	8.0	8.0
60°	1616.5	433.2	29.0	22.3	13.0	10.8	9.2	7.6	6.0	5.1	4.8
62.5°	1598.1	384.8	22.9	16.6	9.2	8.0	6.0	5.1	3.5	2.5	2.2
65°	1502.9	310.6	18.5	11.5	6.7	4.8	3.2	3.2	1.6	0.3	0.0
67.5°	1315.4	230.1	14.6	7.6	3.8	2.2	1.6	1.0	0.0	0.0	0.0
70°	1070.7	166.1	11.5	4.8	2.2	1.6	0.6	0.3	0.0	0.0	0.0
72.5°	679.8	95.2	8.9	2.9	1.6	0.6	0.0	0.0	0.0	0.0	0.0
75°	262.9	37.2	6.0	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	74.5	17.5	3.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	19.4	7.6	1.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.2	3.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.4	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	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)