

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: P651748

Luminaire Tested: **GALN-SA2A-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6192.3 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

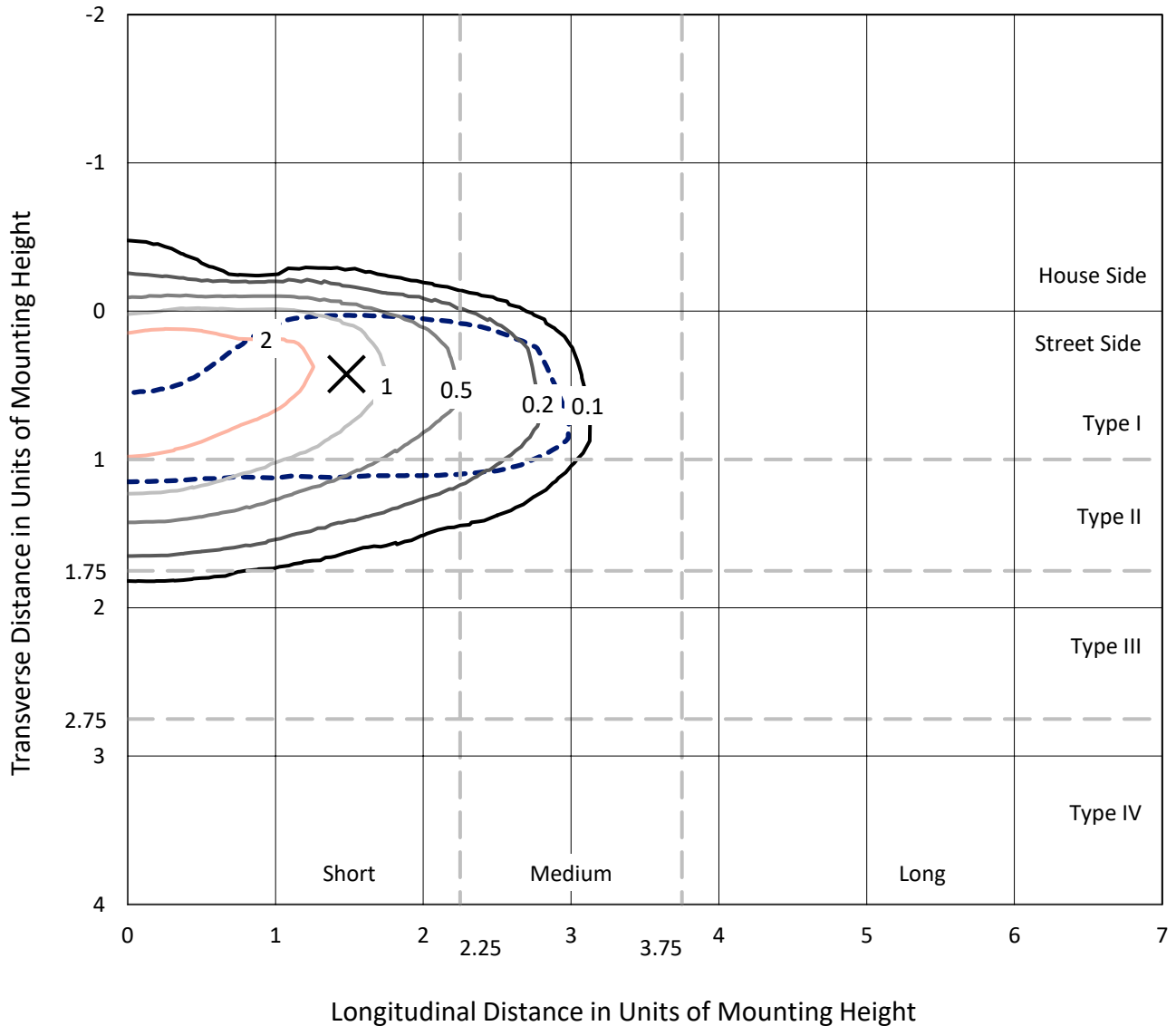
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

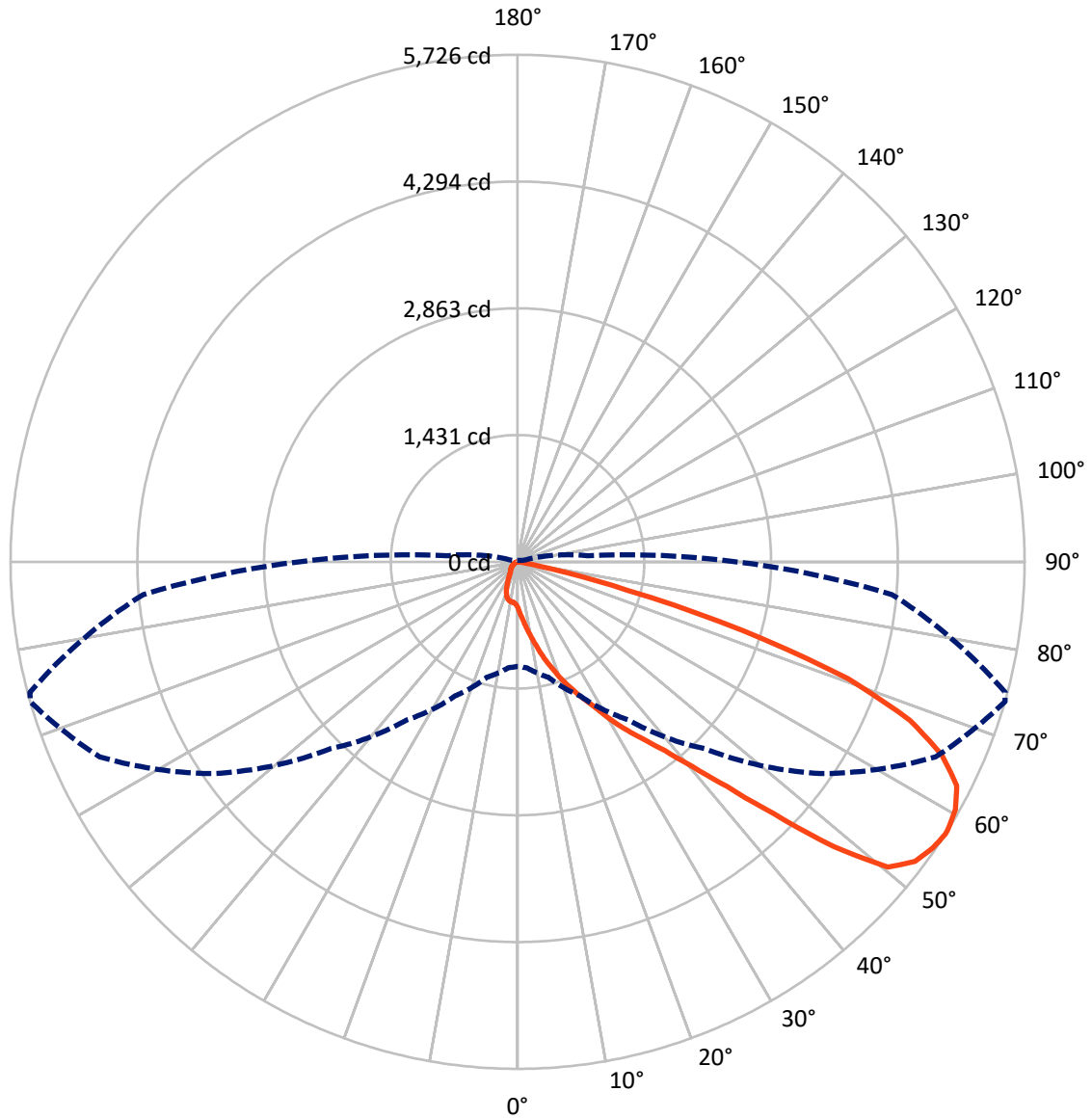
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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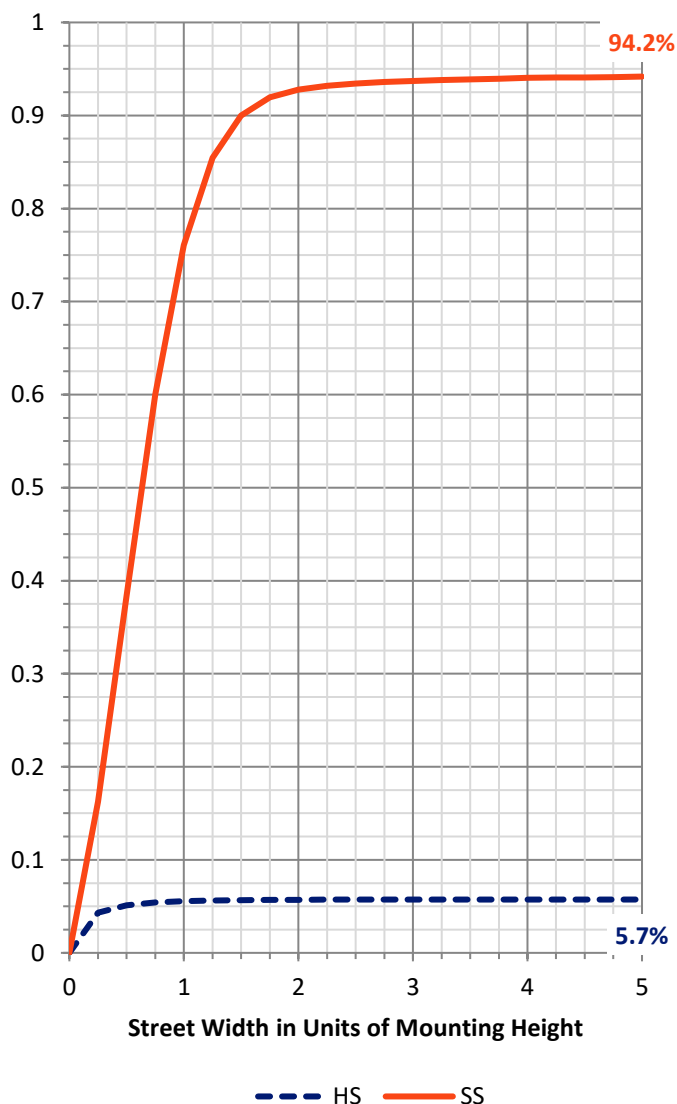
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	357.2	0.0	357.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	5835.1	0.0	5835.1
	% Fixture	94.2	0.0	94.2
Total	Lumens	6192.3	0.0	6192.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	1.0
10°-20°	246.7	4.0
20°-30°	527.9	8.5
30°-40°	970.3	15.7
40°-50°	1487.5	24.0
50°-60°	1573.6	25.4
60°-70°	1027.6	16.6
70°-80°	280.8	4.5
80°-90°	15.1	0.2
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°	6192.3	100.0
0°-180°	6192.3	100.0

Coefficient of Utilization

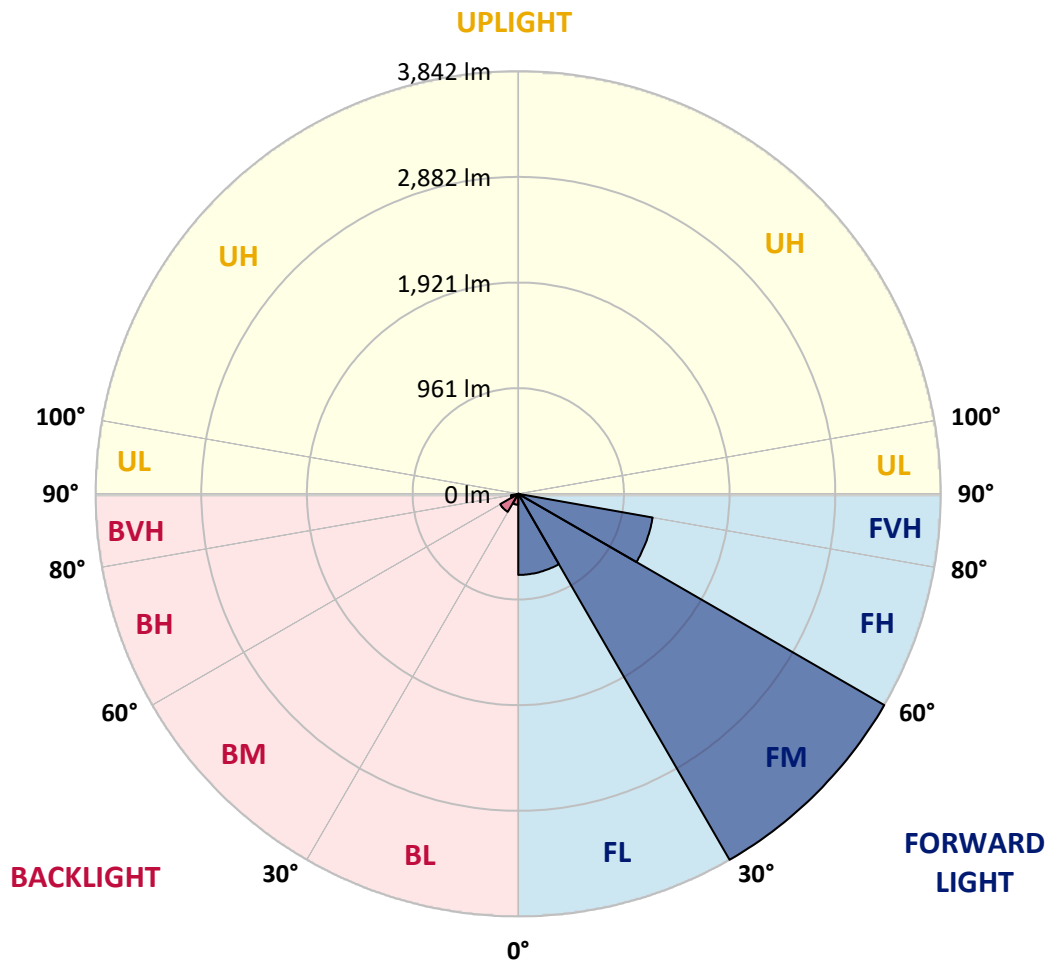


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	737.5	11.9			
FM (30°-60°)	3842.4	62.1			
FH (60°-80°)	1241.4	20.0			G1/1800
FVH (80°-90°)	13.9	0.2			G1/100
BL (0°-30°)	99.8	1.6	B0/110		
BM (30°-60°)	189.1	3.1	B0/220		
BH (60°-80°)	67.1	1.1	B0/110		G0/110
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	518.6	518.6	518.6	518.6	518.6	518.6	518.6	518.6	518.6	518.6	518.6
2.5°	758.8	752.0	738.3	733.6	713.6	682.3	655.0	618.2	589.1	586.2	551.1
5°	1016.3	1000.9	994.4	963.6	915.3	870.0	792.2	733.2	665.2	660.1	589.5
7.5°	1264.2	1242.8	1236.4	1207.3	1150.9	1079.5	978.6	871.3	763.5	753.7	641.3
10°	1443.7	1446.8	1435.3	1416.0	1370.2	1297.6	1173.1	1026.5	873.0	860.6	699.5
12.5°	1572.5	1572.0	1574.2	1573.8	1549.4	1494.2	1363.4	1194.6	993.6	969.3	766.2
15°	1656.3	1657.5	1663.9	1686.2	1688.7	1654.6	1545.5	1355.3	1133.4	1103.1	838.4
17.5°	1740.9	1749.9	1760.1	1781.1	1799.9	1786.2	1709.2	1522.9	1259.9	1237.3	915.8
20°	1880.7	1893.1	1887.1	1900.0	1909.7	1911.1	1851.6	1677.6	1413.4	1375.4	1004.2
22.5°	2104.4	2103.8	2088.5	2065.4	2046.2	2045.3	1991.4	1836.7	1552.8	1516.0	1093.2
25°	2386.9	2388.2	2358.2	2292.4	2244.5	2185.9	2123.9	1976.0	1702.0	1656.7	1186.8
27.5°	2711.0	2702.9	2657.6	2566.9	2472.0	2372.0	2282.6	2138.1	1860.2	1822.5	1294.1
30°	3002.1	2999.2	2946.1	2835.3	2710.5	2610.0	2480.5	2341.2	2065.0	2018.8	1414.3
32.5°	3273.2	3277.5	3204.0	3089.3	2968.8	2852.9	2716.1	2535.3	2265.9	2200.5	1545.1
35°	3484.8	3489.1	3412.9	3317.7	3193.7	3097.5	2967.0	2742.2	2464.3	2409.1	1695.6
37.5°	3597.7	3603.3	3559.2	3487.4	3410.0	3361.6	3240.3	3008.5	2705.4	2672.1	1873.4
40°	3619.1	3625.5	3606.2	3586.9	3582.7	3617.3	3581.8	3322.4	3039.7	2987.6	2138.5
42.5°	3554.9	3563.5	3572.1	3614.8	3702.0	3829.0	3952.5	3748.2	3470.3	3400.2	2462.6
45°	3386.5	3385.6	3419.4	3530.1	3725.5	3996.6	4339.9	4281.3	4056.8	3973.5	2920.5
47.5°	3098.3	3094.0	3167.1	3324.9	3629.3	4027.4	4655.8	4928.6	4805.5	4728.5	3412.5
50°	2659.2	2680.2	2795.2	3015.4	3390.3	3934.1	4753.3	5353.1	5419.8	5338.2	3810.2
52.5°	2144.9	2144.0	2324.5	2623.3	3036.3	3728.9	4685.3	5430.1	5619.5	5557.1	4005.9
55°	1587.4	1598.6	1786.2	2087.6	2576.7	3354.4	4463.4	5350.9	5695.6	5651.5	4135.1
57°	1180.8	1200.5	1351.0	1670.0	2176.6	2983.8	4168.0	5209.5	5725.5	5701.6	4242.4
57.5°	1102.2	1103.1	1249.6	1539.5	2059.4	2841.4	4083.4	5150.5	5724.7	5711.4	4259.9
60°	678.5	699.9	801.2	1040.7	1507.5	2217.6	3516.1	4811.4	5680.2	5699.5	4334.8
62.5°	406.1	415.1	481.0	627.2	971.8	1618.7	2877.3	4377.5	5564.3	5622.9	4329.6
65°	261.2	263.4	293.3	379.6	607.5	1094.1	2217.2	3804.2	5264.7	5372.4	4160.3
67.5°	201.8	205.2	217.1	249.3	352.3	681.5	1568.2	3192.4	4779.8	4918.8	3749.9
70°	179.1	180.8	185.1	195.4	233.0	384.8	975.6	2493.8	3963.6	4003.0	2934.6
72.5°	146.2	151.0	164.2	167.6	184.7	240.3	542.9	1673.8	2663.1	2673.0	1641.7
75°	113.3	114.1	133.8	143.6	155.6	165.4	242.4	843.9	1279.2	1210.8	632.8
77.5°	84.7	88.5	97.5	109.8	127.0	118.4	108.6	318.1	397.2	389.9	183.8
80°	54.3	56.4	68.0	82.5	98.7	77.4	61.1	93.2	87.2	89.8	44.1
82.5°	27.3	27.8	43.6	67.1	62.8	38.9	38.5	38.0	32.5	32.0	20.5
85°	3.0	6.4	28.3	38.5	28.3	12.9	18.0	17.5	17.1	17.5	11.9
87.5°	0.4	0.4	4.7	5.6	3.9	4.3	5.1	5.6	6.8	6.4	5.1
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°	518.6	518.6	518.6	518.6	518.6	518.6	518.6	518.6	518.6	518.6	518.6
2.5°	534.0	516.9	485.3	454.9	432.3	417.7	398.9	392.1	382.2	380.9	376.3
5°	557.1	524.6	469.4	425.8	390.7	364.2	341.2	321.9	306.5	303.1	304.9
7.5°	590.0	541.7	464.7	405.3	356.6	311.3	274.5	251.8	235.6	229.6	230.4
10°	627.2	564.3	463.9	383.5	309.1	253.6	213.4	193.3	183.8	180.4	176.6
12.5°	671.2	590.4	461.7	349.7	256.9	202.3	173.6	161.6	152.6	150.0	150.0
15°	720.8	618.2	451.4	307.8	208.7	167.2	147.9	138.5	135.6	133.0	133.0
17.5°	772.5	645.6	430.1	256.1	173.2	143.2	131.3	125.7	121.4	118.4	118.4
20°	831.6	672.5	395.9	210.3	146.2	127.8	118.4	112.0	108.6	106.1	105.2
22.5°	887.6	694.3	352.3	172.7	127.4	115.0	106.5	99.6	96.2	94.9	94.9
25°	945.7	707.5	299.7	142.8	116.3	104.3	94.9	89.3	86.4	85.5	85.1
27.5°	1002.1	715.3	253.6	124.8	106.1	94.4	85.5	81.2	78.2	77.4	77.8
30°	1070.5	716.5	208.7	112.0	97.1	85.1	77.0	73.1	71.4	70.6	70.1
32.5°	1139.8	714.8	175.3	104.3	88.5	77.0	70.1	67.1	65.9	64.6	64.6
35°	1217.6	705.9	149.2	96.6	80.4	70.1	64.2	61.6	59.9	58.5	58.1
37.5°	1314.2	701.1	134.2	88.1	73.1	63.7	58.1	55.6	54.3	52.6	52.1
40°	1466.5	722.1	129.5	80.4	65.9	57.7	52.6	49.6	47.9	46.2	45.8
42.5°	1656.3	758.8	121.9	72.7	59.5	52.1	47.0	43.6	40.6	38.5	37.6
45°	1902.1	807.2	109.8	64.6	53.9	46.2	41.5	37.2	33.4	31.6	31.2
47.5°	2159.9	853.8	99.2	58.1	47.9	41.0	35.9	31.2	27.8	26.5	26.1
50°	2318.0	863.2	92.3	50.9	41.9	35.5	30.4	26.1	24.0	22.6	22.6
52.5°	2390.3	848.2	82.9	44.5	36.3	31.2	26.1	22.6	21.4	20.5	20.1
55°	2440.8	825.1	70.6	38.5	31.2	26.5	23.1	20.5	18.8	18.0	17.5
57°	2470.3	793.9	61.1	33.8	26.9	23.1	20.5	18.4	16.7	15.0	15.0
57.5°	2471.5	782.0	58.5	33.4	25.7	22.2	20.1	18.0	15.8	14.1	13.7
60°	2433.5	699.9	47.0	28.3	20.5	18.8	16.7	14.1	11.1	9.4	9.0
62.5°	2311.2	595.5	38.9	24.0	16.7	14.5	11.9	10.7	7.7	5.6	5.6
65°	2126.1	483.1	33.4	19.3	13.7	10.7	8.2	7.7	4.7	2.6	2.1
67.5°	1858.4	376.3	28.3	15.8	11.5	7.7	5.6	5.1	2.6	0.8	0.0
70°	1416.0	256.5	23.5	12.9	8.6	5.6	3.9	3.0	1.7	0.4	0.0
72.5°	816.2	141.1	19.7	9.8	6.4	4.3	3.0	1.7	1.7	0.0	0.0
75°	291.6	60.7	15.0	7.2	5.1	3.4	2.1	0.8	1.3	0.4	0.0
77.5°	92.8	32.5	9.8	5.6	4.3	2.6	1.7	0.8	0.8	0.4	0.0
80°	27.3	17.1	6.0	4.7	3.0	2.1	1.3	0.4	0.8	0.4	0.0
82.5°	15.0	8.6	4.7	3.4	3.0	1.7	1.3	0.4	0.4	0.4	0.0
85°	7.7	5.1	3.9	3.4	3.0	1.7	1.3	0.4	0.0	0.4	0.4
87.5°	4.3	3.9	3.9	3.4	3.0	2.1	1.3	0.4	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)