

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: P651675

Luminaire Tested: **GALN-SA1A-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3219.4 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

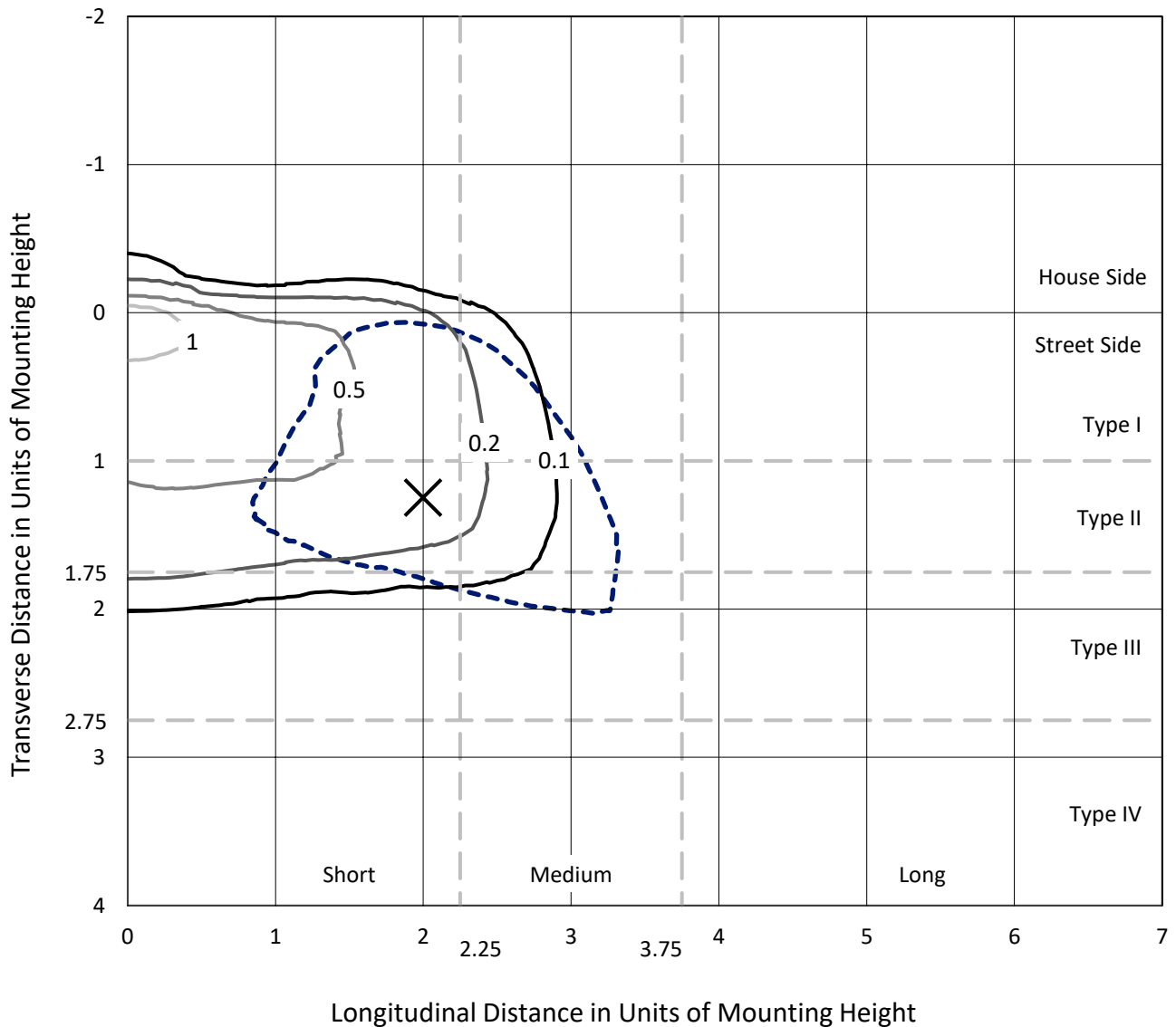
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

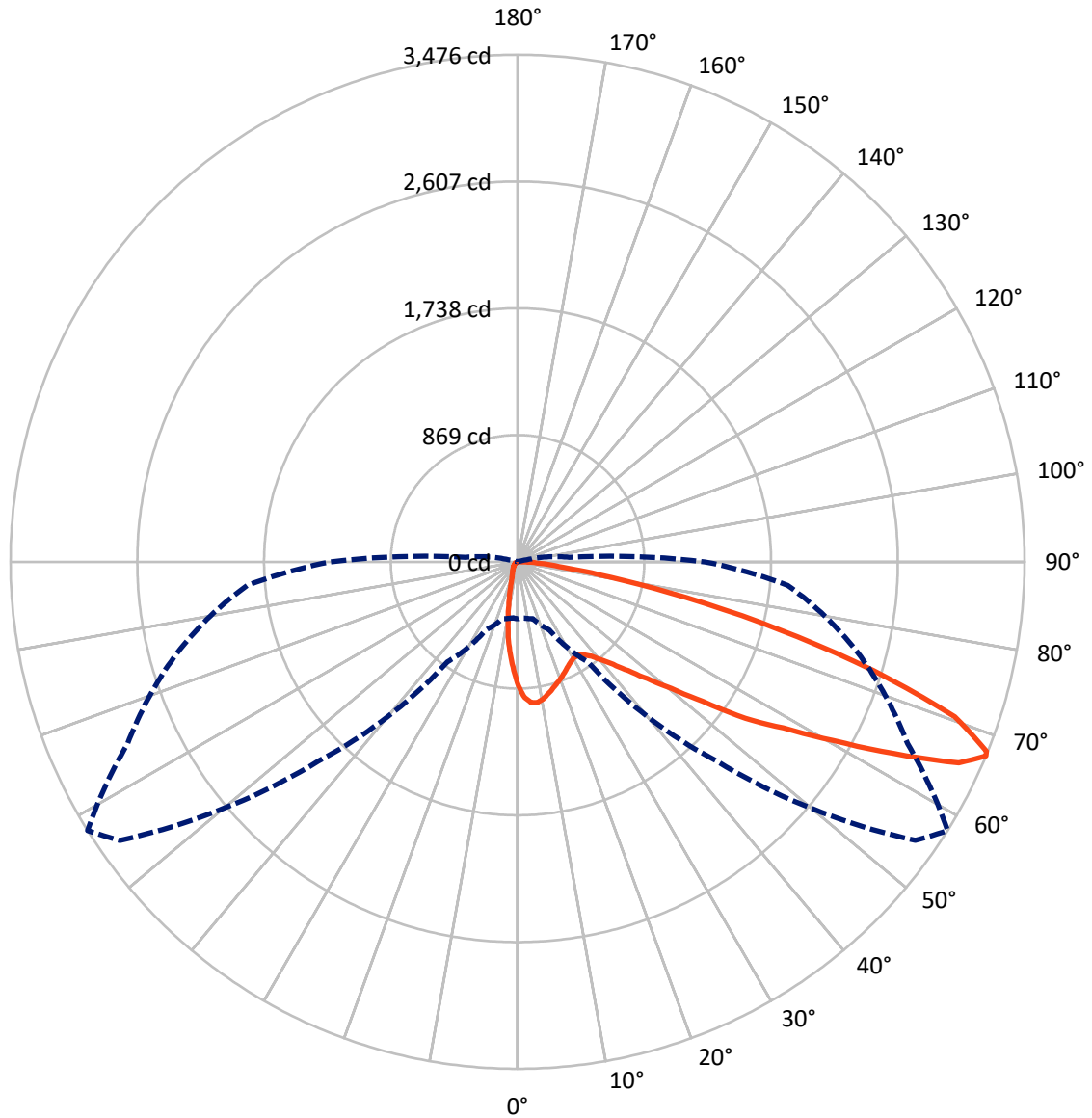
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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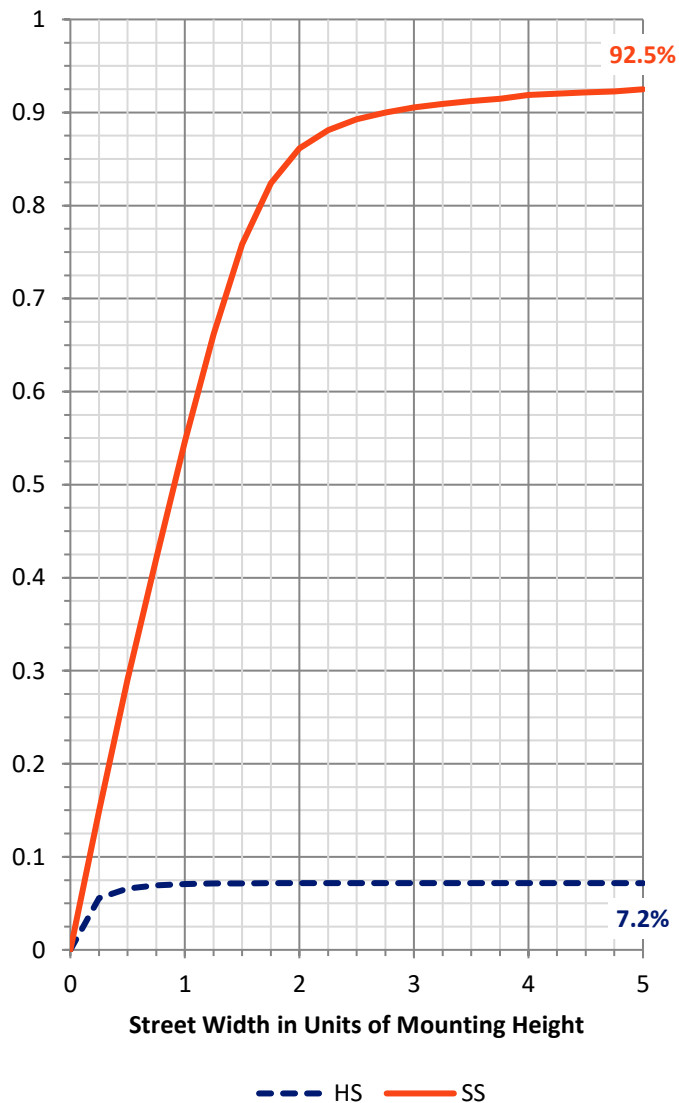
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	232.3	0.0	232.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	2987.0	0.0	2987.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	3219.4	0.0	3219.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	2.2
10°-20°	149.6	4.6
20°-30°	202.7	6.3
30°-40°	281.1	8.7
40°-50°	448.3	13.9
50°-60°	775.0	24.1
60°-70°	885.3	27.5
70°-80°	369.1	11.5
80°-90°	39.1	1.2
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°	3219.4	100.0
0°-180°	3219.4	100.0

Coefficient of Utilization



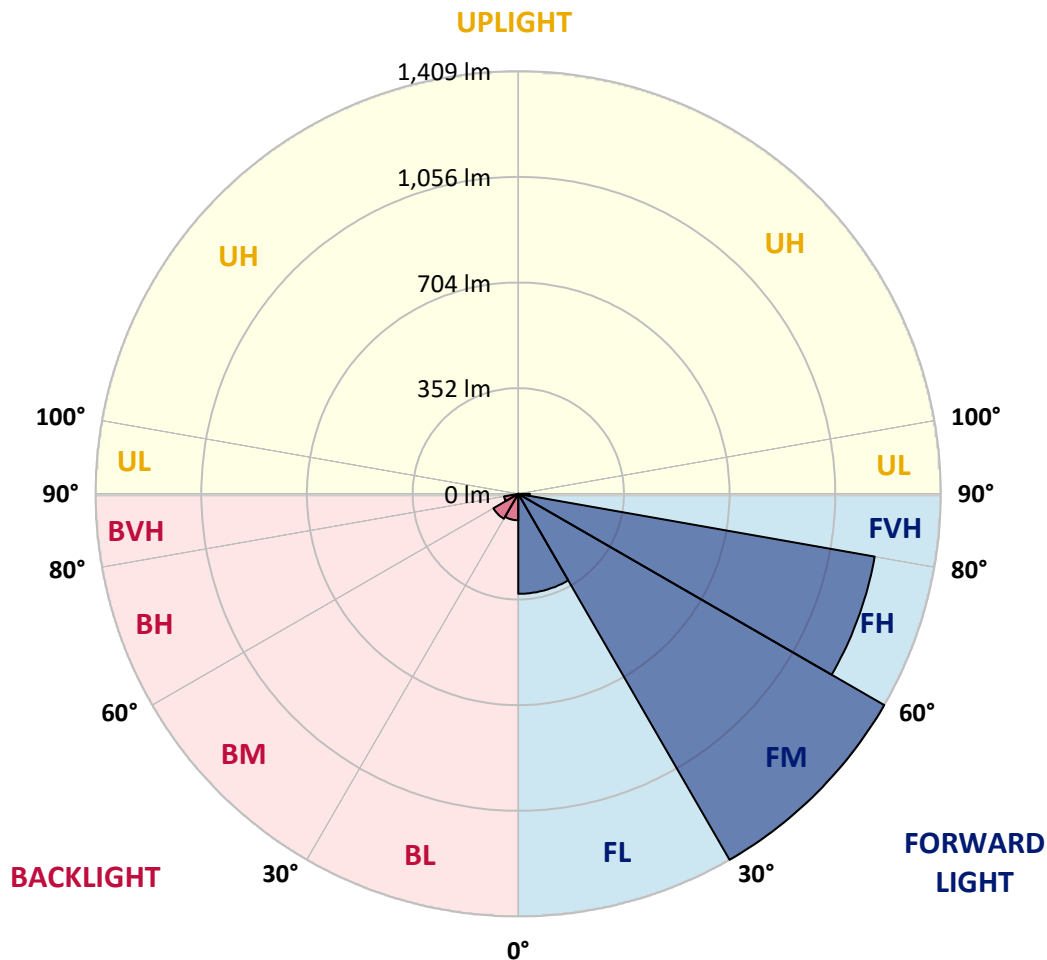
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	333.3	10.4			
FM (30°-60°)	1408.6	43.8			
FH (60°-80°)	1206.3	37.5			G1/1800
FVH (80°-90°)	38.9	1.2			G1/100
BL (0°-30°)	88.2	2.7	B0/110		
BM (30°-60°)	95.8	3.0	B0/220		
BH (60°-80°)	48.0	1.5	B0/110		G0/110
BVH (80°-90°)	0.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4
2.5°	990.4	992.0	986.4	981.9	970.3	957.7	941.2	932.3	917.3	891.3	862.4
5°	1013.7	1015.6	1014.8	1013.7	1009.2	997.1	976.1	968.3	946.1	903.7	851.7
7.5°	962.0	969.2	970.0	978.4	986.4	987.4	979.5	973.7	953.3	903.6	832.6
10°	893.6	898.4	905.3	914.9	934.1	950.0	957.7	956.9	945.0	896.8	810.2
12.5°	824.6	827.2	837.7	854.3	877.8	904.8	925.5	929.6	929.8	888.9	791.5
15°	765.2	764.1	772.3	791.5	824.3	858.4	895.3	901.8	912.1	881.2	774.1
17.5°	714.4	720.1	721.3	742.4	772.7	816.9	864.0	875.4	896.0	874.5	759.6
20°	683.1	686.1	688.9	700.6	728.0	774.5	834.5	850.2	880.9	868.5	743.5
22.5°	673.8	675.7	673.4	677.0	696.3	737.6	802.4	823.3	866.6	862.9	730.3
25°	680.9	682.8	677.3	672.9	679.6	707.8	771.4	796.8	855.0	861.8	720.5
27.5°	698.1	701.7	694.0	686.3	682.4	691.6	747.1	776.6	847.0	867.0	715.9
30°	725.0	727.1	721.3	711.8	703.1	693.8	734.4	762.6	844.8	879.0	715.5
32.5°	754.2	758.8	755.6	749.3	737.9	715.9	738.1	763.0	850.0	896.4	720.9
35°	790.4	795.6	798.5	797.3	782.6	755.3	761.4	782.5	863.7	928.5	735.5
37.5°	825.9	830.4	847.4	853.2	840.3	814.5	806.5	820.5	894.1	970.4	762.0
40°	866.6	872.5	896.4	918.6	912.4	885.2	870.6	882.2	940.6	1033.7	812.2
42.5°	905.5	916.3	952.6	991.7	997.6	967.2	957.6	961.4	1009.4	1124.7	882.0
45°	960.8	970.9	1017.8	1070.9	1098.3	1074.5	1064.7	1064.0	1103.8	1252.7	995.4
47.5°	1040.6	1049.7	1104.9	1157.4	1206.0	1209.3	1190.5	1197.0	1222.6	1402.5	1134.3
50°	1138.5	1159.7	1196.2	1250.7	1315.7	1368.2	1374.0	1365.4	1387.4	1575.9	1301.3
52.5°	1280.7	1288.8	1322.2	1367.1	1443.3	1532.4	1601.4	1589.6	1582.7	1741.0	1470.0
55°	1386.7	1397.7	1449.5	1511.3	1623.0	1740.4	1890.1	1894.2	1807.3	1899.8	1635.0
57.5°	1354.7	1371.4	1450.0	1574.1	1819.6	2034.3	2145.7	2148.5	2015.1	2054.1	1821.3
60°	1190.1	1198.1	1310.5	1476.2	1836.3	2352.7	2508.2	2485.6	2226.6	2226.6	1985.9
62.5°	843.9	856.4	947.6	1191.4	1658.5	2463.2	2942.3	2895.6	2517.9	2391.6	2084.0
65°	539.3	527.3	587.8	752.1	1235.5	2300.0	3320.4	3323.1	2792.0	2457.7	2030.4
67°	390.6	385.9	403.3	514.2	837.7	1933.4	3328.3	3475.6	2949.4	2415.9	1859.1
67.5°	357.3	361.0	373.7	463.8	761.1	1759.4	3292.1	3466.6	2985.0	2390.7	1797.2
70°	270.9	264.6	278.4	328.1	456.3	1109.9	2832.0	3179.4	2940.8	2140.9	1436.0
72.5°	199.2	198.6	217.7	268.3	351.3	591.1	2125.9	2549.3	2402.6	1630.3	904.2
75°	134.5	140.4	171.1	224.1	318.4	383.3	1449.3	1849.4	1667.9	925.7	369.6
77.5°	76.6	77.0	110.2	180.1	285.9	308.5	858.8	1178.2	882.9	307.9	109.8
80°	33.1	36.3	54.7	130.8	237.1	273.2	492.4	647.6	357.1	65.2	35.5
82.5°	12.3	14.4	24.1	80.5	173.0	225.1	297.5	309.2	121.1	23.0	22.1
85°	0.0	0.4	8.8	37.7	90.2	100.5	198.8	183.3	53.6	10.9	14.4
87.5°	0.0	0.0	0.0	3.9	11.9	37.4	61.7	68.9	12.9	3.9	3.4
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°	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4
2.5°	847.0	833.0	797.9	762.9	736.8	715.1	682.4	664.6	655.1	641.1	641.9
5°	825.7	797.3	735.5	671.6	620.0	569.7	509.4	485.1	464.7	453.0	445.3
7.5°	794.1	752.1	660.7	575.5	496.1	408.1	342.0	298.0	268.3	257.3	246.7
10°	759.4	703.7	584.7	466.6	356.5	265.7	209.7	169.3	154.9	141.5	142.9
12.5°	727.4	659.6	515.0	368.3	249.8	168.9	131.7	115.1	110.3	108.8	108.8
15°	701.1	617.5	440.2	276.9	171.2	121.4	105.4	100.9	99.2	98.7	98.7
17.5°	673.1	577.4	372.6	204.6	124.6	101.5	96.1	93.2	92.5	92.1	92.1
20°	648.2	537.1	308.5	152.3	100.7	91.4	88.0	86.0	85.4	84.9	85.2
22.5°	624.5	501.5	248.3	115.1	88.6	83.3	79.8	77.9	76.6	75.5	75.7
25°	603.4	467.0	199.7	94.2	79.8	75.1	71.7	68.9	66.0	64.8	64.5
27.5°	588.6	436.9	155.5	80.7	71.8	66.7	62.4	59.0	55.3	53.3	52.9
30°	576.3	406.4	123.0	71.2	63.9	59.0	53.6	48.6	44.7	42.8	42.0
32.5°	568.3	377.4	97.1	63.5	57.2	51.2	45.2	40.2	35.9	34.0	33.6
35°	567.1	353.1	79.4	57.0	51.2	44.7	38.5	33.1	29.4	27.5	27.1
37.5°	576.3	334.3	66.4	51.8	46.3	39.2	32.3	27.3	24.1	22.6	22.4
40°	601.1	322.4	57.7	47.5	41.7	34.0	27.5	23.2	20.0	18.5	18.5
42.5°	648.2	322.9	51.8	43.5	37.3	29.0	23.5	19.3	16.6	15.3	14.9
45°	721.7	337.6	46.9	39.4	32.9	25.1	20.0	15.9	13.1	12.0	12.0
47.5°	820.3	366.6	42.6	35.3	29.0	21.5	17.0	12.9	10.5	9.5	9.5
50°	949.2	413.3	38.9	31.9	25.8	18.5	13.8	10.5	8.2	7.3	7.1
52.5°	1083.8	471.0	34.6	28.8	22.1	15.7	11.2	8.2	6.2	5.6	5.4
55°	1232.5	527.3	30.5	25.8	18.1	13.1	8.8	6.5	4.5	3.9	3.9
57.5°	1382.4	582.6	25.6	21.5	14.2	9.7	6.9	4.7	3.0	2.4	2.4
60°	1509.3	600.4	21.7	17.4	10.8	6.9	5.0	3.0	1.7	1.1	1.1
62.5°	1526.8	540.2	18.2	13.4	7.7	4.7	2.6	1.7	0.7	0.4	0.4
65°	1432.1	438.8	15.3	10.1	5.1	2.4	1.1	0.7	0.3	0.0	0.0
67°	1283.3	355.8	12.4	7.6	3.6	1.5	0.7	0.3	0.0	0.0	0.0
67.5°	1245.2	339.3	12.0	7.1	3.2	1.3	0.4	0.3	0.0	0.0	0.0
70°	977.2	254.1	8.6	4.3	1.9	0.8	0.0	0.0	0.0	0.0	0.0
72.5°	607.3	143.7	6.2	2.6	1.3	0.4	0.0	0.0	0.0	0.0	0.0
75°	229.5	50.4	4.3	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	71.4	19.2	2.6	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	24.1	7.3	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.9	3.0	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.3	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.4	0.3	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)