

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: P458530

Luminaire Tested: **GALN-SA1A-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458530
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-SA1A-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA 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: 3222 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 II - Short
BUG Rating: B0 - U0 - G1

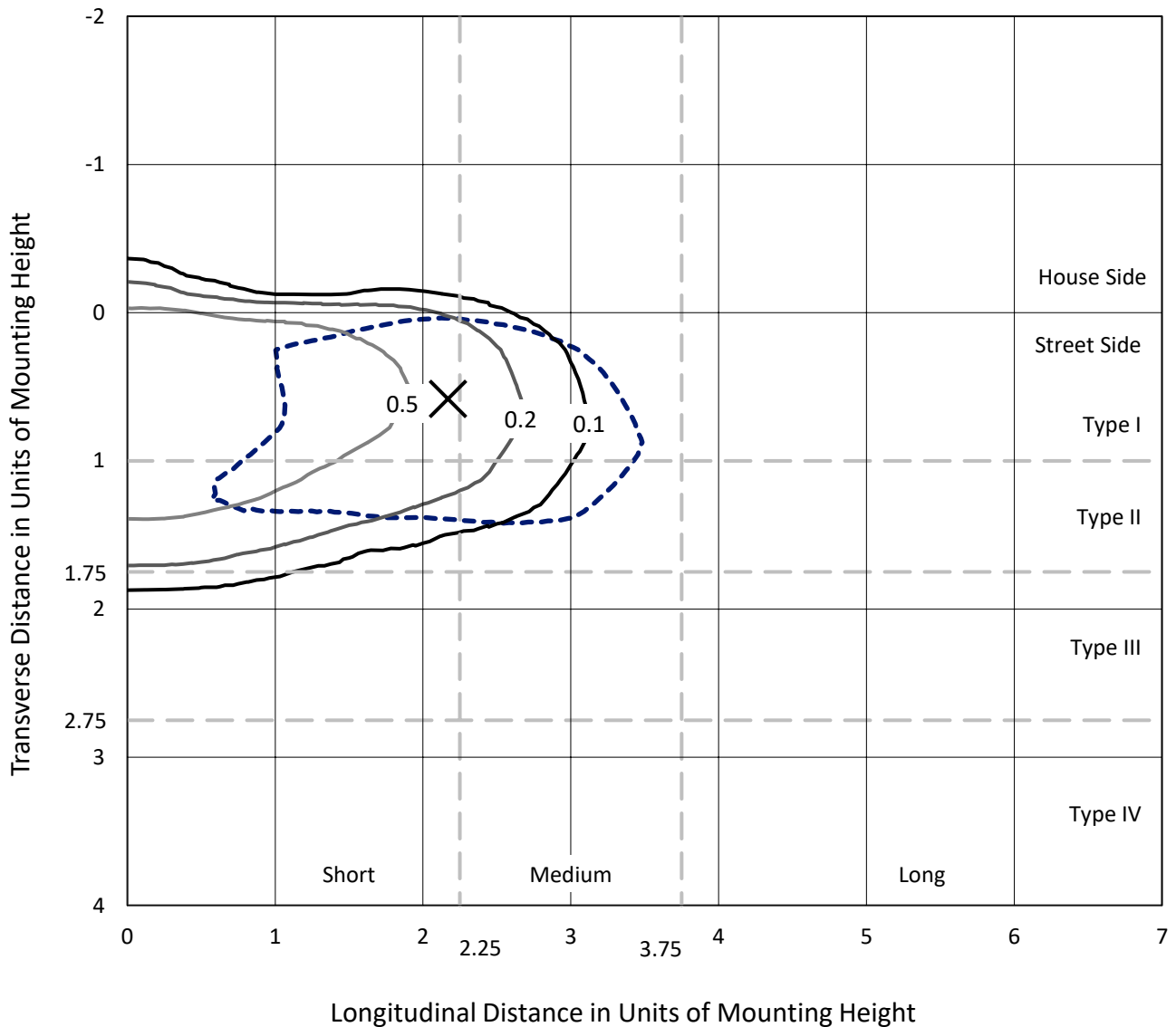
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

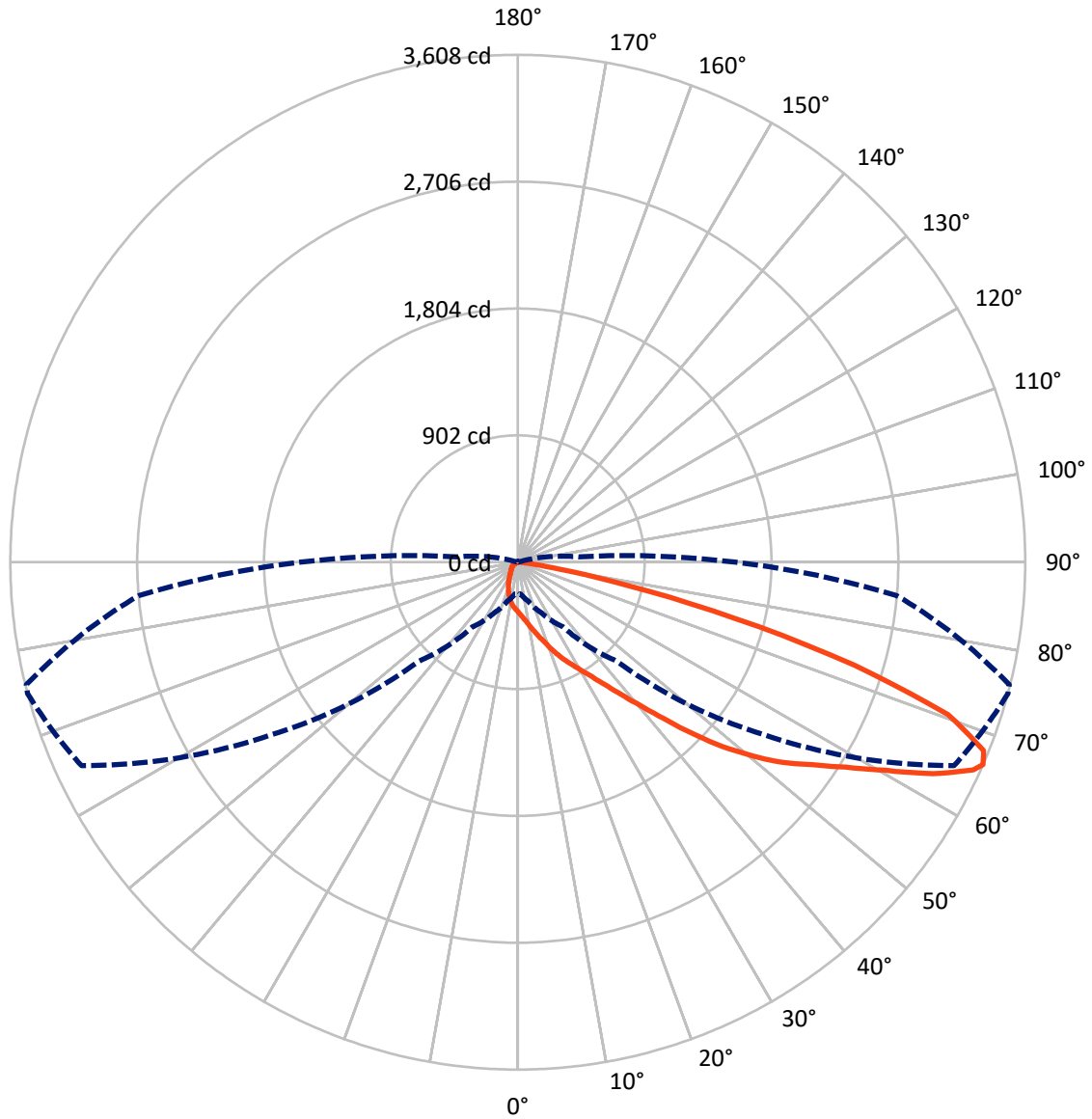
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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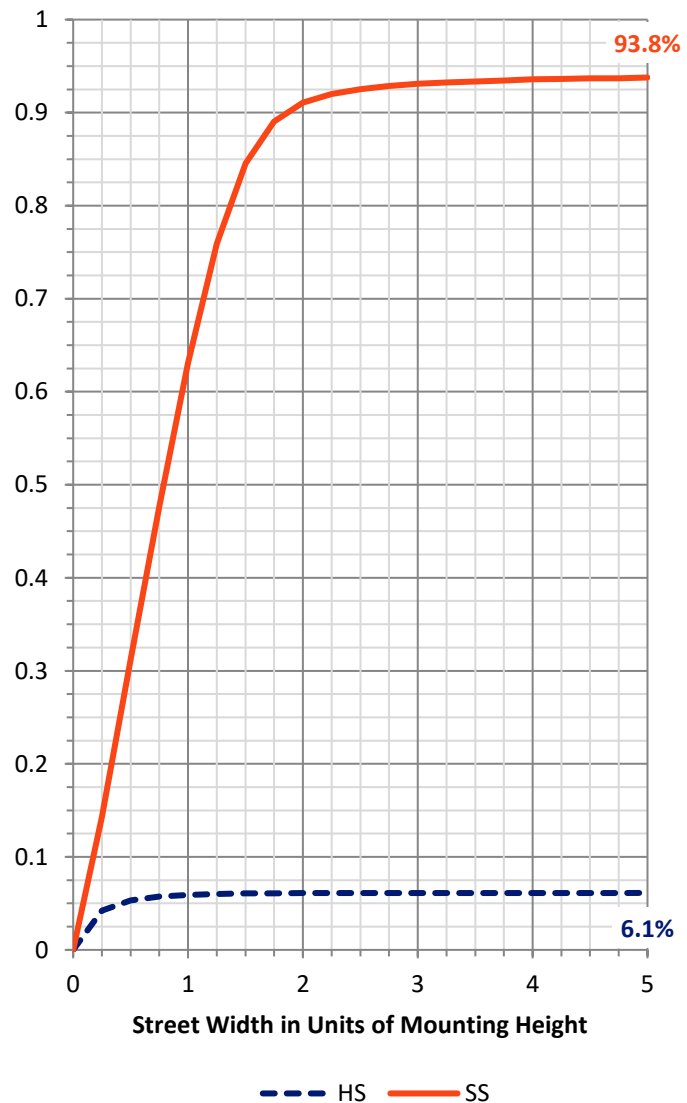
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	198.9	0.0	198.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	3023.1	0.0	3023.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	3222.0	0.0	3222.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	1.1
10°-20°	100.0	3.1
20°-30°	172.7	5.4
30°-40°	311.5	9.7
40°-50°	562.8	17.5
50°-60°	877.4	27.2
60°-70°	833.5	25.9
70°-80°	312.4	9.7
80°-90°	17.6	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°	3222.0	100.0
0°-180°	3222.0	100.0



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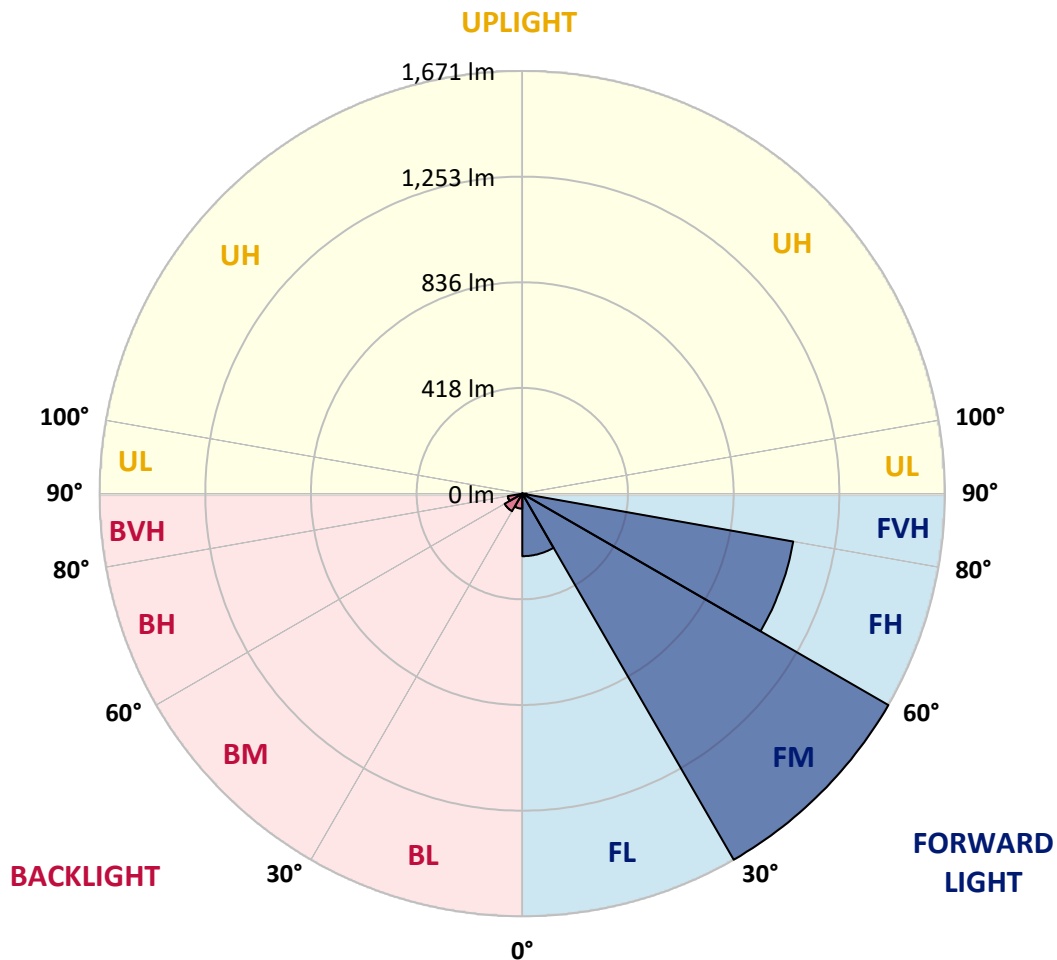
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	247.3	7.7			
FM (30°-60°)	1671.2	51.9			
FH (60°-80°)	1087.8	33.8			G1/1800
FVH (80°-90°)	16.7	0.5			G1/100
BL (0°-30°)	59.4	1.8	B0/110		
BM (30°-60°)	80.5	2.5	B0/220		
BH (60°-80°)	58.1	1.8	B0/110		G0/110
BVH (80°-90°)	0.9	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°	352.4	352.4	352.4	352.4	352.4	352.4	352.4	352.4	352.4	352.4	352.4
2.5°	421.0	415.7	417.4	415.0	409.5	401.4	394.3	384.0	373.8	372.1	360.7
5°	476.5	475.1	473.1	466.2	462.4	450.0	435.3	417.6	396.4	392.6	371.9
7.5°	514.4	513.6	514.6	511.0	507.7	496.5	480.8	456.7	423.8	421.7	387.1
10°	526.7	528.7	532.2	537.9	543.2	539.6	527.7	497.7	459.3	453.1	404.5
12.5°	519.6	521.7	530.3	545.6	562.5	572.3	567.5	545.6	497.0	492.0	424.1
15°	501.3	503.9	516.0	539.6	569.9	597.5	609.4	593.7	540.8	532.7	447.7
17.5°	474.1	477.9	495.3	526.5	568.0	615.6	649.2	644.0	587.5	579.9	473.4
20°	453.6	456.5	471.2	507.0	559.9	625.6	687.1	701.9	645.2	632.1	503.6
22.5°	467.2	468.1	473.1	494.6	545.3	628.2	720.4	762.1	706.4	694.7	535.1
25°	533.7	524.1	519.1	514.4	542.2	625.9	750.7	825.0	767.4	755.0	566.3
27.5°	638.5	634.2	608.9	575.1	568.7	629.0	770.7	884.6	824.8	811.4	596.8
30°	752.6	745.2	729.7	680.2	630.4	650.9	785.2	942.5	892.7	875.1	624.7
32.5°	857.4	862.2	839.1	788.1	730.4	697.6	804.1	1005.6	970.6	948.7	657.1
35°	979.6	989.2	953.7	904.8	837.4	781.9	840.8	1076.8	1069.5	1041.8	707.1
37.5°	1103.8	1109.5	1087.8	1019.2	958.4	889.1	909.8	1164.8	1191.2	1167.6	766.9
40°	1208.1	1216.0	1200.0	1139.0	1074.2	1013.2	1010.1	1260.5	1336.1	1311.8	856.0
42.5°	1287.9	1293.9	1294.4	1251.2	1192.9	1165.2	1138.1	1382.7	1517.6	1489.5	959.4
45°	1388.7	1397.3	1392.3	1363.0	1319.4	1314.4	1300.3	1530.5	1734.9	1699.4	1093.5
47.5°	1544.5	1550.2	1537.8	1503.3	1459.0	1466.8	1458.5	1696.0	1956.4	1925.9	1232.4
50°	1652.7	1662.2	1679.8	1693.7	1661.5	1632.4	1607.6	1850.7	2166.8	2139.4	1374.4
52.5°	1651.5	1667.2	1723.0	1792.5	1862.8	1854.0	1782.8	2021.5	2367.6	2333.8	1507.8
55°	1540.2	1570.7	1652.7	1776.1	1970.7	2067.7	2035.3	2219.2	2541.1	2518.2	1662.4
57.5°	1310.6	1329.1	1443.0	1615.5	1910.4	2168.2	2327.8	2487.2	2749.1	2738.3	1902.6
60°	881.5	889.8	1036.3	1249.6	1626.5	2067.9	2542.3	2811.5	3005.2	2999.9	2183.0
62.5°	505.1	508.6	614.9	794.8	1157.4	1752.5	2560.4	3211.5	3312.3	3315.1	2507.5
65°	271.8	273.7	359.5	466.5	704.2	1249.1	2302.4	3430.7	3560.5	3566.0	2708.6
66°	234.7	225.6	286.1	397.6	560.3	994.2	2139.2	3422.8	3608.2	3602.2	2701.4
67.5°	178.4	186.5	228.5	305.7	415.3	706.9	1766.1	3270.6	3571.9	3553.4	2591.6
70°	127.7	131.0	162.7	218.0	282.8	387.9	1128.5	2716.4	3246.5	3221.5	2257.8
72.5°	82.4	86.0	115.3	157.7	204.4	211.8	631.8	1962.6	2503.0	2499.4	1700.3
75°	58.8	62.2	76.2	112.9	153.7	131.0	304.2	1322.7	1591.2	1580.5	1051.8
77.5°	42.6	44.3	51.0	73.9	109.8	93.9	141.0	706.4	792.1	829.6	464.8
80°	24.5	26.0	35.5	45.0	74.3	64.1	67.4	283.5	292.3	278.3	145.3
82.5°	12.2	13.8	21.2	30.7	46.5	43.1	31.0	85.3	90.1	87.7	36.7
85°	2.9	3.6	11.9	20.3	22.6	19.3	15.0	25.0	31.0	30.3	14.1
87.5°	0.2	0.5	4.3	3.6	3.8	6.4	5.2	6.4	10.0	9.3	5.0
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°	352.4	352.4	352.4	352.4	352.4	352.4	352.4	352.4	352.4	352.4	352.4
2.5°	355.5	350.9	337.8	325.0	314.2	303.0	292.8	286.8	284.5	281.8	283.0
5°	360.5	349.5	323.1	300.2	277.8	258.7	243.5	233.7	228.9	228.2	227.0
7.5°	367.1	348.3	307.3	271.6	242.3	221.1	203.7	189.6	185.4	181.5	178.4
10°	375.2	346.2	287.8	241.6	210.4	183.7	160.8	144.1	135.6	133.2	134.8
12.5°	383.8	342.1	267.3	213.9	178.0	143.9	122.7	114.4	112.0	111.0	111.3
15°	392.4	337.1	245.9	187.3	141.8	114.8	105.1	102.9	102.0	101.5	101.0
17.5°	400.2	329.0	221.8	161.3	114.8	98.2	94.6	92.7	90.8	90.1	88.9
20°	409.5	319.7	200.1	132.2	97.2	88.9	84.6	81.0	78.1	76.2	76.0
22.5°	418.4	307.8	177.5	109.6	88.6	79.8	72.9	69.1	65.8	63.4	64.1
25°	423.1	293.3	157.2	95.5	80.8	70.8	63.1	58.4	54.8	53.6	53.4
27.5°	423.1	275.4	137.5	87.4	73.6	62.7	54.8	50.3	47.9	46.2	46.5
30°	419.8	255.6	119.1	81.2	67.4	55.5	48.1	44.1	42.2	41.0	40.7
32.5°	417.2	236.8	103.4	75.3	61.0	49.3	42.9	39.8	37.9	36.7	36.7
35°	421.2	220.6	91.2	69.3	55.0	44.6	38.8	36.0	34.1	33.1	32.9
37.5°	431.9	205.8	82.0	62.9	49.6	40.5	36.0	32.6	30.7	29.5	29.1
40°	458.4	197.5	75.0	56.9	44.3	37.2	32.6	29.5	27.2	26.0	25.7
42.5°	500.8	197.7	68.4	51.5	40.3	34.3	29.8	26.2	23.6	22.4	22.2
45°	564.6	206.8	63.1	46.2	36.7	31.2	26.7	22.9	20.5	19.3	19.3
47.5°	641.1	224.4	58.6	41.7	33.4	28.4	23.6	19.8	17.4	16.4	16.4
50°	724.0	247.3	54.1	36.9	30.5	25.3	20.3	17.2	15.2	14.5	14.5
52.5°	808.6	274.9	49.6	33.1	27.4	21.9	17.4	15.2	13.6	13.1	12.9
55°	919.6	310.2	44.8	29.1	24.1	18.8	15.5	13.3	11.4	10.7	10.5
57.5°	1090.4	363.3	39.5	25.5	19.8	15.7	13.3	11.2	9.1	7.9	7.6
60°	1296.5	428.1	34.1	22.4	16.0	12.9	10.7	8.6	6.7	5.2	5.0
62.5°	1489.5	469.3	28.8	18.8	12.6	9.8	7.6	6.4	4.8	3.3	3.1
65°	1574.8	455.5	23.8	15.2	10.0	6.9	5.0	4.5	2.9	1.4	1.2
66°	1546.4	435.0	21.9	13.8	9.1	6.0	4.3	3.8	2.1	0.7	0.7
67.5°	1462.8	386.7	19.1	11.9	7.9	4.8	3.3	2.9	1.2	0.2	0.0
70°	1253.4	312.8	15.0	8.8	5.7	3.3	1.9	1.4	0.7	0.0	0.0
72.5°	962.7	233.0	11.9	6.7	4.1	1.9	1.0	0.5	0.7	0.0	0.0
75°	589.9	133.2	9.3	5.0	2.6	1.2	0.7	0.0	0.7	0.2	0.0
77.5°	261.8	59.8	6.2	3.3	1.9	1.0	0.5	0.0	0.5	0.2	0.0
80°	66.2	19.5	3.6	2.4	1.4	0.7	0.2	0.0	0.5	0.5	0.2
82.5°	18.1	7.1	2.6	1.9	1.2	0.7	0.2	0.0	0.5	0.5	0.5
85°	7.1	3.3	2.4	1.9	1.4	0.7	0.2	0.0	0.5	0.5	0.5
87.5°	3.3	2.4	2.4	2.1	1.7	0.7	0.2	0.0	0.5	0.2	0.5
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)