

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: P527019

Luminaire Tested: **GALN-SA2A-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5539 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

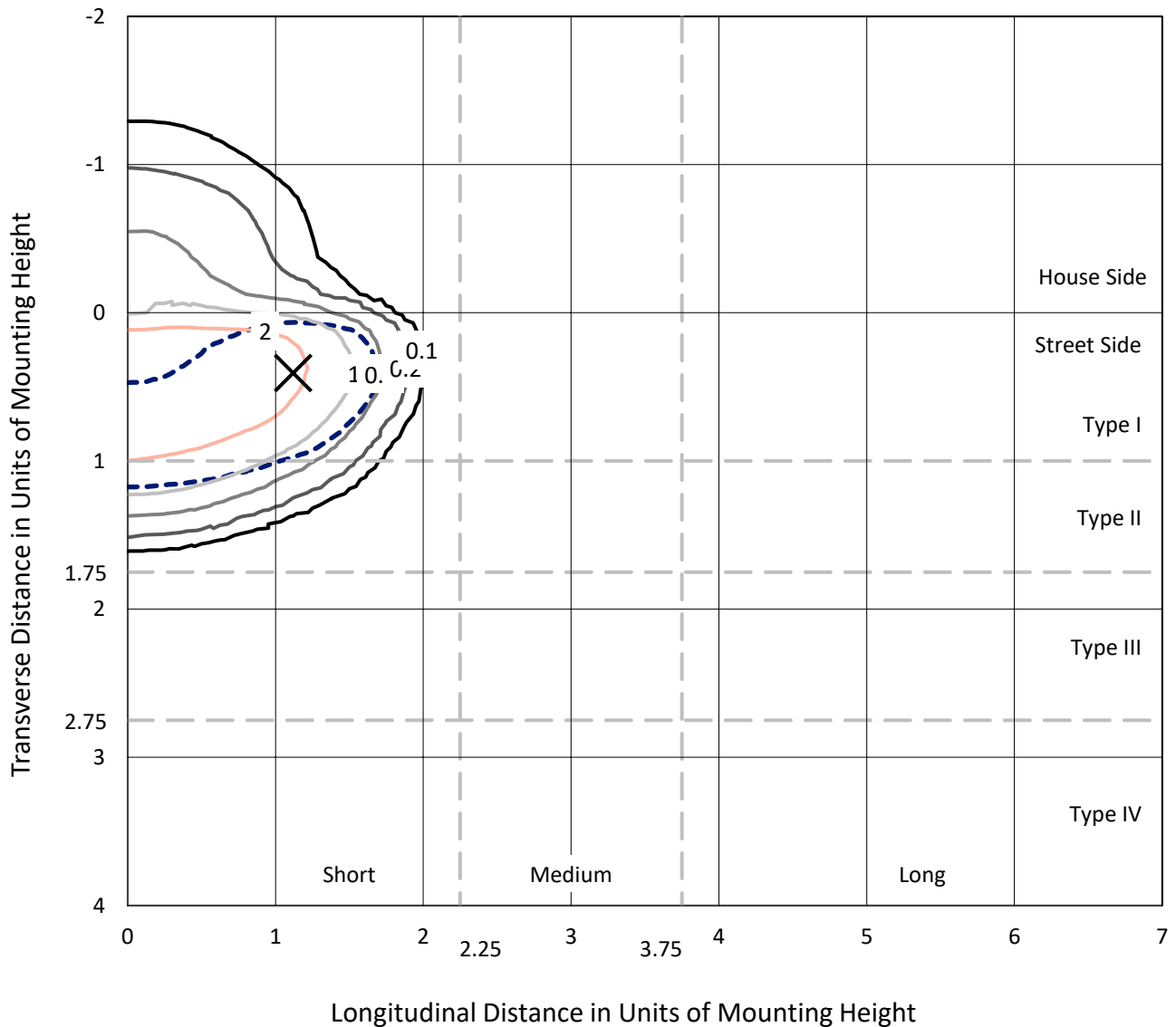
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

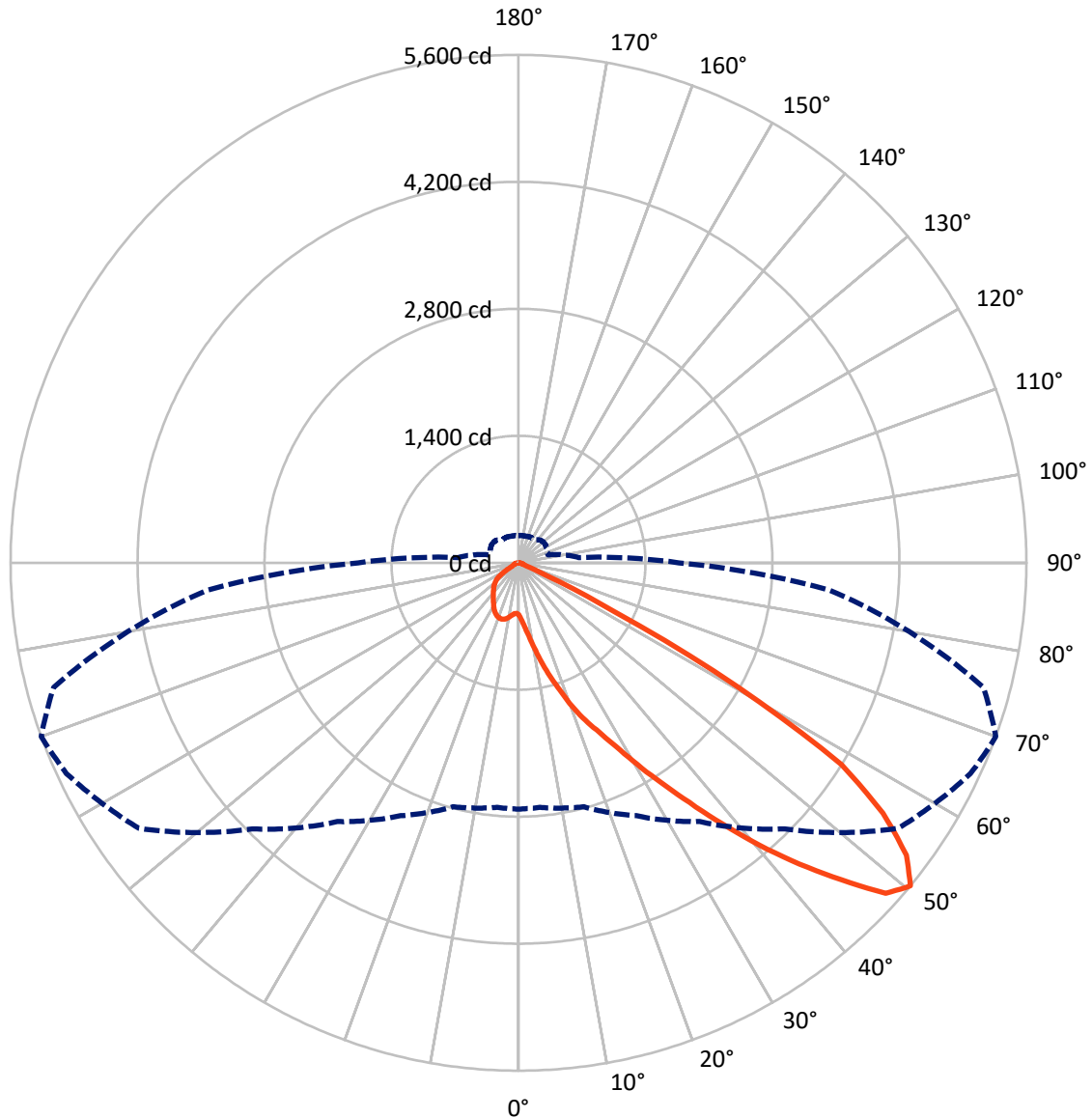
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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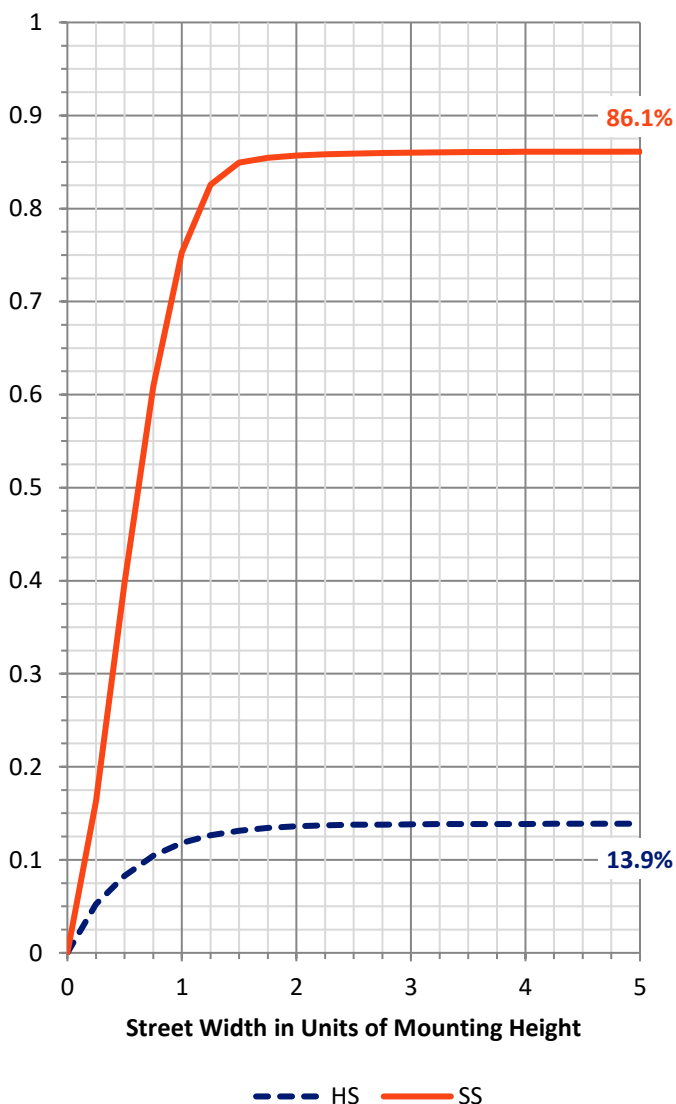
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	773.6	0.0	773.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4765.4	0.0	4765.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	5539.0	0.0	5539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	1.3
10°-20°	322.7	5.8
20°-30°	677.0	12.2
30°-40°	1166.9	21.1
40°-50°	1705.5	30.8
50°-60°	1328.3	24.0
60°-70°	225.0	4.1
70°-80°	30.9	0.6
80°-90°	8.0	0.1
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°	5539.0	100.0
0°-180°	5539.0	100.0

Coefficient of Utilization

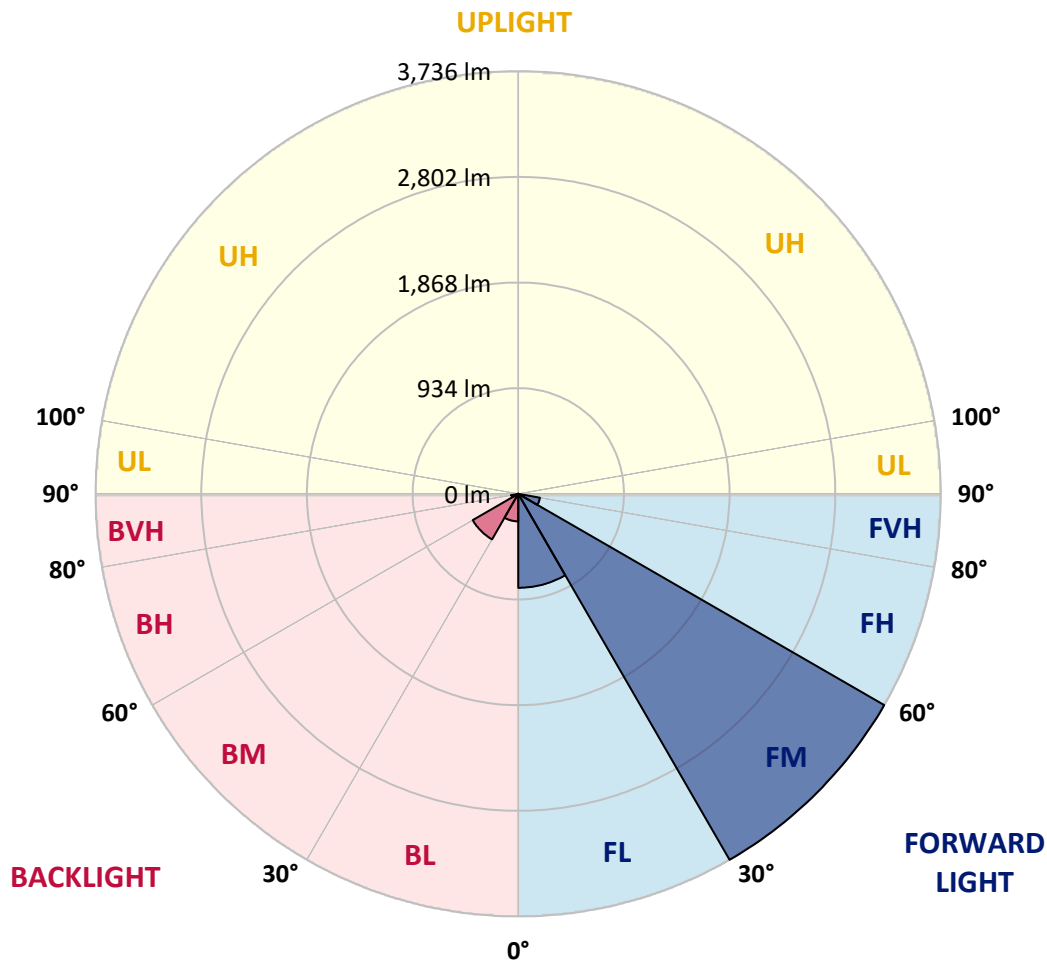


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	830.9	15.0			
FM (30°-60°)	3736.0	67.4			
FH (60°-80°)	194.9	3.5			G0/660
FVH (80°-90°)	3.7	0.1			G0/10
BL (0°-30°)	243.4	4.4	B1/500		
BM (30°-60°)	464.7	8.4	B1/1000		
BH (60°-80°)	61.1	1.1	B0/110		G0/110
BVH (80°-90°)	4.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7
2.5°	751.3	745.9	734.0	712.2	703.0	681.2	668.4	643.9	628.4	611.1	591.9
5°	1058.2	1030.0	1012.7	988.1	916.1	871.5	797.8	734.9	705.8	673.9	630.2
7.5°	1375.1	1356.9	1333.2	1280.4	1231.2	1138.4	1011.8	873.3	814.2	759.5	673.0
10°	1637.4	1586.4	1583.7	1544.5	1490.8	1379.7	1227.6	1055.5	949.8	869.7	734.0
12.5°	1820.5	1774.0	1795.0	1790.4	1740.3	1638.3	1462.6	1234.9	1124.7	999.9	796.8
15°	1987.1	1968.0	1961.6	1956.2	1936.1	1860.5	1703.0	1453.5	1294.1	1143.8	867.9
17.5°	2150.1	2100.9	2124.6	2129.2	2127.4	2059.1	1911.5	1661.1	1473.5	1295.9	942.6
20°	2294.9	2299.5	2267.6	2261.2	2255.8	2253.0	2109.1	1866.9	1693.9	1455.3	1040.0
22.5°	2480.7	2448.8	2477.1	2458.8	2423.3	2401.5	2291.3	2049.0	1885.1	1647.4	1139.3
25°	2700.2	2725.7	2659.2	2651.9	2612.8	2537.2	2437.9	2253.0	2069.1	1825.9	1246.7
27.5°	2970.7	2926.0	2908.7	2868.7	2797.6	2765.7	2649.2	2463.4	2291.3	2013.5	1350.5
30°	3202.9	3191.0	3104.5	3057.2	2995.2	2994.3	2831.3	2748.4	2580.9	2307.7	1493.5
32.5°	3392.3	3340.4	3308.5	3275.7	3225.6	3239.3	3101.8	3058.1	2889.6	2580.9	1662.0
35°	3518.9	3481.5	3462.4	3412.3	3397.8	3458.8	3401.4	3383.2	3244.8	2965.2	1859.6
37.5°	3559.0	3570.8	3567.2	3504.3	3535.3	3700.1	3773.9	3726.5	3653.7	3370.4	2073.6
40°	3594.5	3602.7	3584.5	3658.2	3746.6	3934.2	4201.0	4122.7	4095.3	3781.2	2371.4
42.5°	3614.5	3608.1	3608.1	3735.6	3869.5	4246.5	4613.5	4561.6	4540.7	4218.3	2715.7
45°	3528.0	3466.1	3532.5	3705.6	3975.1	4400.4	4943.2	5015.1	4985.1	4738.3	3118.2
47.5°	3204.7	3242.9	3280.3	3511.6	3846.7	4353.1	5145.4	5390.3	5445.9	5175.4	3382.3
50°	2715.7	2707.5	2784.9	3076.3	3483.4	4149.1	5106.2	5498.7	5599.8	5306.6	3437.8
52.5°	1975.3	2035.4	2119.2	2408.8	2891.4	3620.9	4600.8	5219.1	5353.9	5145.4	3401.4
55°	1150.2	1083.7	1272.2	1517.2	1972.5	2731.1	3889.5	4626.3	4875.8	4852.1	3217.4
57.5°	460.8	446.2	510.9	688.5	1029.1	1693.0	2828.6	3801.2	4201.0	4444.1	2827.7
60°	202.2	197.6	232.2	280.5	420.7	780.5	1547.3	2364.1	2781.2	3105.4	1946.1
62.5°	145.7	143.9	161.2	178.5	222.2	339.7	650.2	952.6	1187.5	1434.3	871.5
65°	117.5	122.0	133.9	143.0	163.9	188.5	229.5	265.0	325.1	337.0	192.2
67.5°	95.6	99.3	110.2	120.2	123.9	102.0	105.6	92.9	92.9	82.9	66.5
70°	70.1	71.0	83.8	95.6	76.5	41.0	71.9	71.9	64.7	61.9	56.5
72.5°	51.9	52.8	62.8	59.2	30.1	25.5	52.8	58.3	52.8	50.1	45.5
75°	38.2	39.2	32.8	13.7	12.7	16.4	31.0	40.1	38.2	37.3	34.6
77.5°	7.3	5.5	4.6	6.4	9.1	13.7	20.0	24.6	25.5	27.3	25.5
80°	0.9	0.9	2.7	5.5	10.0	14.6	20.9	23.7	24.6	25.5	23.7
82.5°	0.0	0.9	2.7	5.5	10.0	13.7	18.2	20.9	22.8	23.7	22.8
85°	0.0	0.9	1.8	4.6	8.2	10.0	9.1	6.4	5.5	6.4	4.6
87.5°	0.0	0.0	0.9	0.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7
2.5°	581.0	577.4	564.6	551.0	539.1	544.6	539.1	534.6	536.4	534.6	532.8
5°	612.9	596.5	569.2	557.3	547.3	546.4	543.7	542.8	543.7	543.7	535.5
7.5°	642.9	616.5	587.4	574.6	562.8	563.7	557.3	557.3	556.4	551.9	550.1
10°	688.5	653.0	615.6	592.9	578.3	575.6	569.2	562.8	562.8	562.8	553.7
12.5°	738.6	693.9	642.9	616.5	599.2	585.6	575.6	573.7	563.7	561.9	557.3
15°	782.3	725.8	661.2	624.7	602.9	584.7	569.2	559.2	554.6	551.9	548.2
17.5°	825.1	753.1	671.2	624.7	601.1	580.1	563.7	554.6	543.7	545.5	538.2
20°	882.5	782.3	673.9	612.9	583.7	563.7	541.9	537.3	530.9	525.5	527.3
22.5°	938.0	803.2	665.7	598.3	556.4	532.8	521.8	516.4	513.6	509.1	502.7
25°	988.1	826.0	653.0	571.9	527.3	510.0	500.0	499.1	492.7	492.7	480.8
27.5°	1039.1	834.2	631.1	540.9	501.8	491.8	487.2	485.4	482.7	476.3	468.1
30°	1097.4	836.9	599.2	509.1	479.0	468.1	474.5	479.0	467.2	455.3	459.0
32.5°	1145.6	830.5	561.0	479.0	462.6	457.2	469.9	474.5	460.8	448.1	441.7
35°	1203.9	815.1	523.6	455.3	446.2	457.2	468.1	468.1	440.8	425.3	421.6
37.5°	1292.3	797.8	489.0	435.3	428.9	451.7	466.3	456.3	413.5	394.3	389.8
40°	1387.0	786.8	455.3	415.3	419.8	442.6	450.8	419.8	376.1	364.3	360.6
42.5°	1524.5	765.0	425.3	398.0	411.6	429.8	429.8	374.3	357.9	351.5	350.6
45°	1695.7	749.5	398.9	383.4	399.8	404.3	389.8	350.6	338.8	337.0	337.9
47.5°	1779.5	719.4	371.6	366.1	377.9	378.8	340.6	331.5	321.5	318.7	316.9
50°	1766.7	665.7	336.0	343.3	359.7	350.6	310.5	312.4	303.3	302.3	297.8
52.5°	1677.5	581.0	300.5	317.8	336.0	309.6	286.0	284.1	284.1	272.3	267.7
55°	1487.1	468.1	257.7	279.6	301.4	260.5	254.1	252.3	247.7	236.8	234.0
57.5°	1177.5	343.3	194.0	217.7	255.9	221.3	220.4	212.2	200.4	192.2	192.2
60°	700.3	197.6	122.0	133.0	169.4	179.4	199.4	195.8	175.8	163.0	159.4
62.5°	319.7	102.0	77.4	79.2	91.1	116.6	156.6	181.2	153.0	131.1	129.3
65°	107.5	75.6	63.7	61.0	62.8	70.1	93.8	128.4	122.0	101.1	97.4
67.5°	65.6	67.4	60.1	55.6	55.6	54.6	53.7	58.3	71.9	70.1	71.0
70°	56.5	61.9	55.6	50.1	48.3	45.5	38.2	31.9	27.3	31.9	33.7
72.5°	45.5	49.2	47.4	42.8	38.2	34.6	27.3	20.9	15.5	13.7	13.7
75°	33.7	36.4	38.2	32.8	29.1	24.6	20.0	13.7	8.2	5.5	5.5
77.5°	24.6	27.3	28.2	25.5	21.9	17.3	12.7	9.1	4.6	1.8	1.8
80°	20.9	24.6	27.3	25.5	22.8	16.4	11.8	6.4	3.6	0.9	0.9
82.5°	20.0	24.6	27.3	24.6	21.9	15.5	11.8	7.3	2.7	0.9	0.9
85°	4.6	6.4	8.2	10.0	11.8	11.8	9.1	5.5	2.7	0.9	0.9
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.9	0.9	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)