

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: P646741

Luminaire Tested: **GALN-SA1C-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646741
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-SA1C-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3684 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

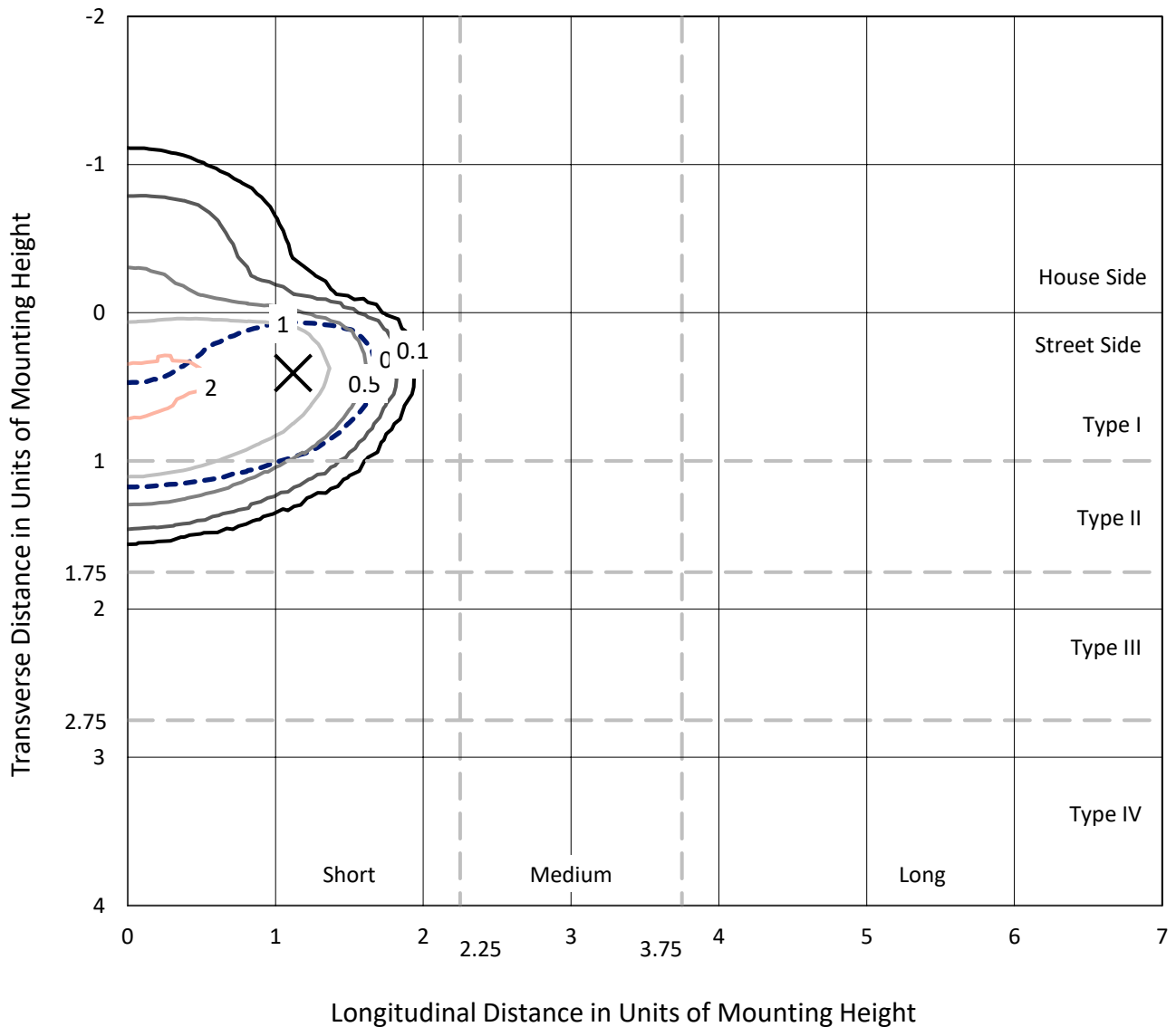
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

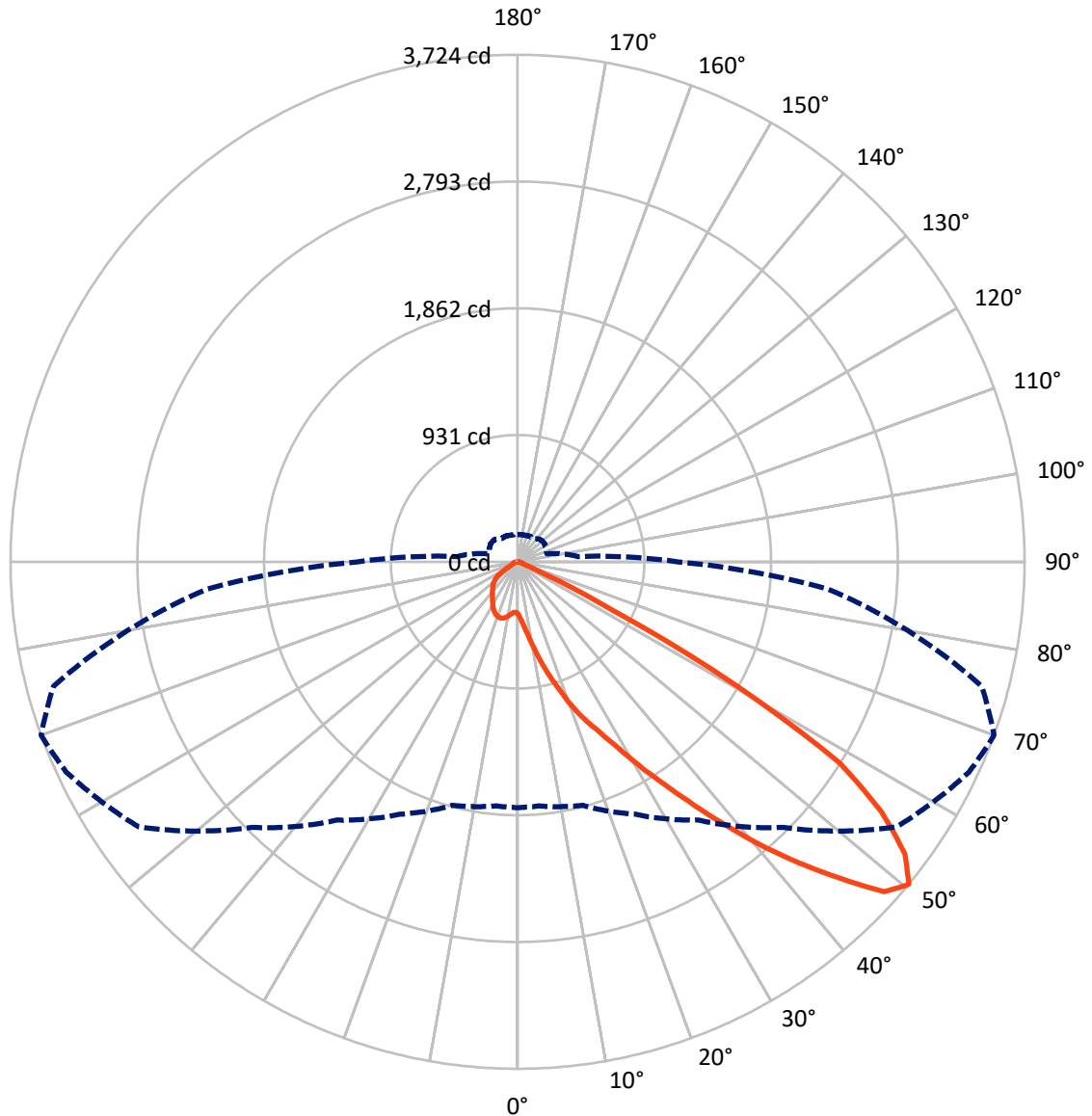
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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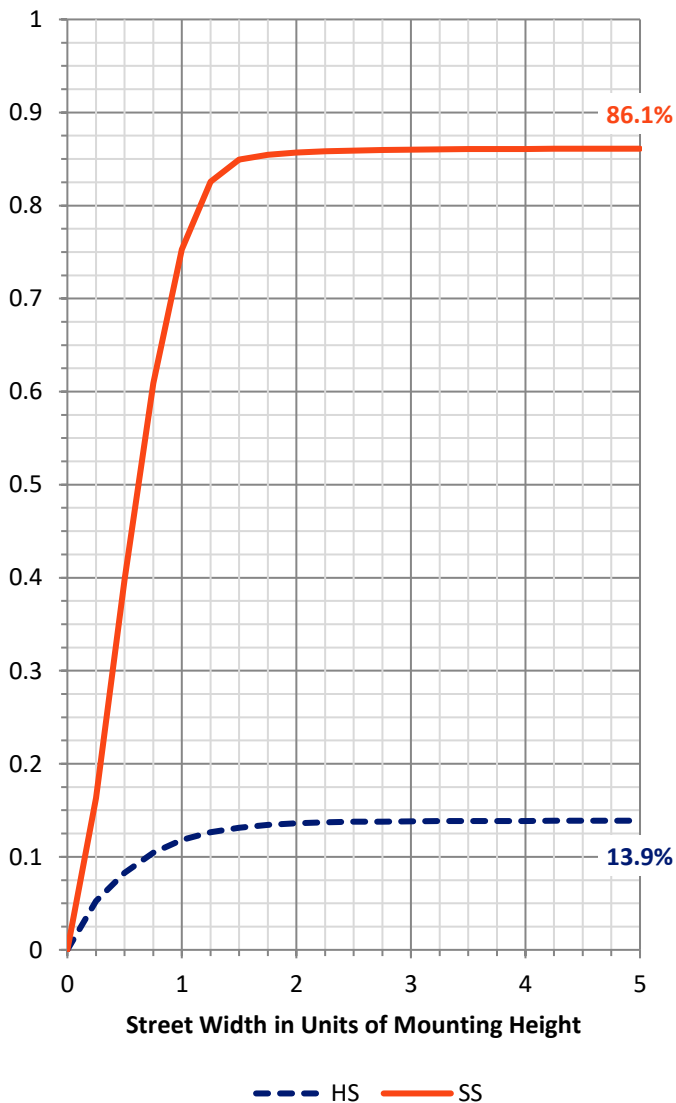
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	514.5	0.0	514.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3169.5	0.0	3169.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	3684.0	0.0	3684.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	1.3
10°-20°	214.6	5.8
20°-30°	450.3	12.2
30°-40°	776.1	21.1
40°-50°	1134.3	30.8
50°-60°	883.4	24.0
60°-70°	149.7	4.1
70°-80°	20.6	0.6
80°-90°	5.3	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°	3684.0	100.0
0°-180°	3684.0	100.0

Coefficient of Utilization

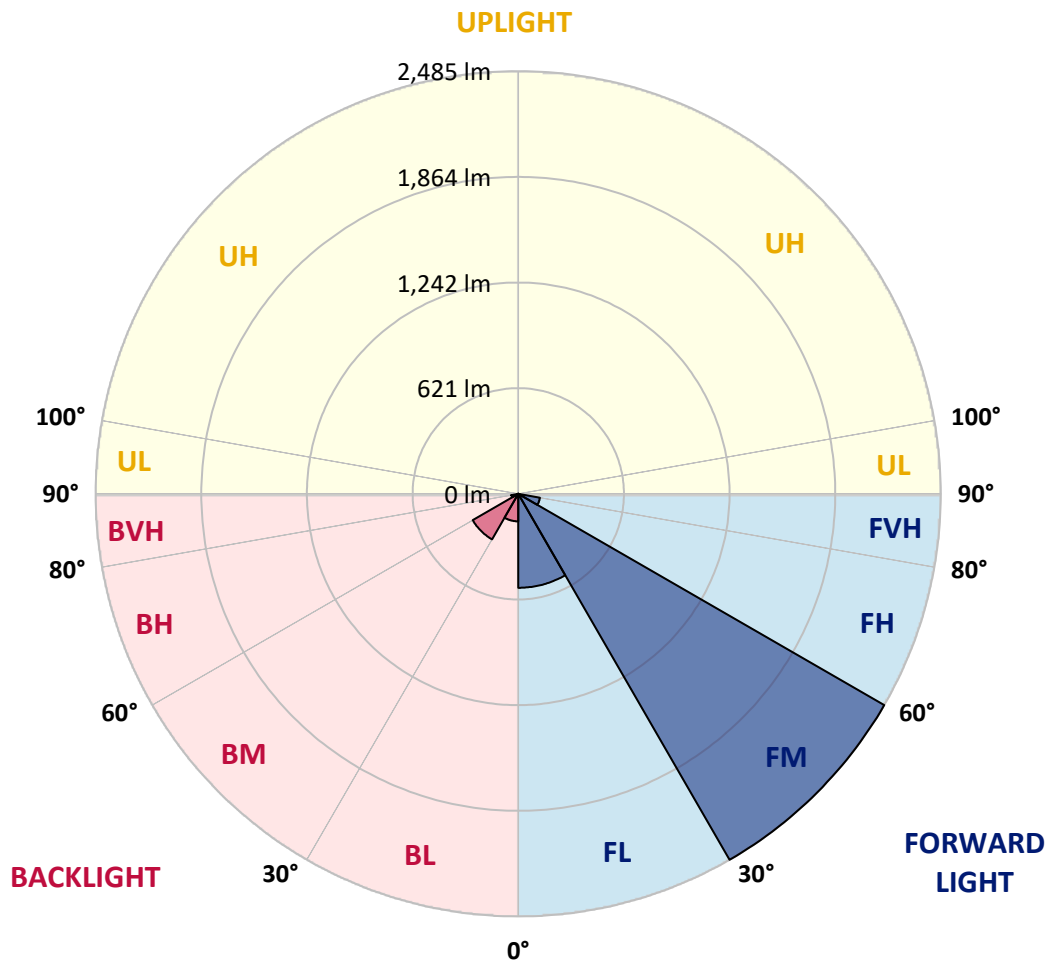


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	552.6	15.0			
FM (30°-60°)	2484.8	67.4			
FH (60°-80°)	129.6	3.5			G0/660
FVH (80°-90°)	2.5	0.1			G0/10
BL (0°-30°)	161.9	4.4	B1/500		
BM (30°-60°)	309.1	8.4	B1/1000		
BH (60°-80°)	40.6	1.1	B0/110		G0/110
BVH (80°-90°)	2.9	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°	381.6	381.6	381.6	381.6	381.6	381.6	381.6	381.6	381.6	381.6	381.6
2.5°	499.7	496.0	488.2	473.6	467.6	453.0	444.6	428.2	418.0	406.5	393.7
5°	703.8	685.0	673.5	657.2	609.3	579.7	530.6	488.8	469.4	448.2	419.1
7.5°	914.6	902.5	886.7	851.6	818.9	757.2	672.9	580.8	541.5	505.2	447.6
10°	1089.1	1055.1	1053.3	1027.3	991.5	917.6	816.5	702.0	631.7	578.5	488.2
12.5°	1210.8	1179.9	1193.8	1190.8	1157.5	1089.6	972.7	821.4	748.1	665.1	530.0
15°	1321.6	1308.9	1304.7	1301.0	1287.7	1237.5	1132.7	966.7	860.7	760.8	577.2
17.5°	1430.1	1397.3	1413.1	1416.1	1414.9	1369.5	1271.4	1104.8	980.0	861.9	626.9
20°	1526.4	1529.4	1508.2	1504.0	1500.3	1498.5	1402.8	1241.7	1126.6	967.9	691.7
22.5°	1649.9	1628.7	1647.5	1635.4	1611.8	1597.2	1524.0	1362.8	1253.8	1095.7	757.7
25°	1795.9	1812.9	1768.6	1763.8	1737.8	1687.4	1621.4	1498.5	1376.1	1214.4	829.2
27.5°	1975.8	1946.1	1934.6	1907.9	1860.7	1839.5	1762.0	1638.4	1524.0	1339.2	898.3
30°	2130.2	2122.4	2064.8	2033.4	1992.2	1991.6	1883.1	1828.0	1716.6	1534.8	993.3
32.5°	2256.2	2221.7	2200.5	2178.7	2145.4	2154.5	2063.0	2033.9	1921.9	1716.6	1105.4
35°	2340.5	2315.6	2302.9	2269.5	2259.9	2300.5	2262.3	2250.2	2158.1	1972.1	1236.8
37.5°	2367.1	2374.9	2372.6	2330.8	2351.3	2461.0	2510.0	2478.5	2430.0	2241.7	1379.2
40°	2390.7	2396.1	2384.0	2433.1	2491.8	2616.6	2794.1	2742.0	2723.8	2514.8	1577.3
42.5°	2404.0	2399.8	2399.8	2484.6	2573.6	2824.4	3068.5	3034.0	3020.0	2805.6	1806.2
45°	2346.5	2305.3	2349.5	2464.6	2643.9	2926.8	3287.7	3335.6	3315.6	3151.5	2073.9
47.5°	2131.5	2156.9	2181.8	2335.6	2558.5	2895.2	3422.2	3585.1	3622.1	3442.2	2249.6
50°	1806.2	1800.7	1852.3	2046.1	2316.8	2759.6	3396.2	3657.2	3724.4	3529.5	2286.5
52.5°	1313.8	1353.7	1409.5	1602.1	1923.1	2408.3	3060.0	3471.3	3560.9	3422.2	2262.3
55°	765.0	720.8	846.2	1009.1	1311.9	1816.5	2587.0	3077.0	3243.0	3227.1	2139.9
57.5°	306.5	296.8	339.8	457.9	684.4	1126.0	1881.3	2528.2	2794.1	2955.8	1880.7
60°	134.4	131.5	154.5	186.6	279.8	519.1	1029.1	1572.4	1849.8	2065.5	1294.4
62.5°	96.9	95.7	107.2	118.7	147.8	225.9	432.5	633.5	789.8	954.0	579.7
65°	78.1	81.2	89.0	95.1	109.0	125.4	152.6	176.3	216.3	224.1	127.8
67.5°	63.6	66.0	73.3	79.9	82.4	67.8	70.2	61.8	61.8	55.1	44.2
70°	46.7	47.2	55.7	63.6	50.9	27.2	47.8	47.8	43.0	41.2	37.6
72.5°	34.5	35.2	41.8	39.4	20.0	17.0	35.2	38.8	35.2	33.3	30.3
75°	25.4	26.1	21.8	9.1	8.5	10.9	20.6	26.6	25.4	24.8	23.0
77.5°	4.9	3.6	3.1	4.2	6.0	9.1	13.3	16.4	17.0	18.2	17.0
80°	0.6	0.6	1.8	3.6	6.7	9.7	13.9	15.7	16.4	17.0	15.7
82.5°	0.0	0.6	1.8	3.6	6.7	9.1	12.1	13.9	15.1	15.7	15.1
85°	0.0	0.6	1.2	3.1	5.5	6.7	6.0	4.2	3.6	4.2	3.1
87.5°	0.0	0.0	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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°	381.6	381.6	381.6	381.6	381.6	381.6	381.6	381.6	381.6	381.6	381.6
2.5°	386.4	384.0	375.5	366.4	358.5	362.2	358.5	355.6	356.7	355.6	354.3
5°	407.6	396.7	378.6	370.7	364.0	363.4	361.6	361.0	361.6	361.6	356.2
7.5°	427.6	410.1	390.6	382.2	374.4	374.9	370.7	370.7	370.0	367.1	365.8
10°	457.9	434.3	409.4	394.3	384.6	382.8	378.6	374.4	374.4	374.4	368.2
12.5°	491.3	461.6	427.6	410.1	398.5	389.5	382.8	381.6	374.9	373.7	370.7
15°	520.3	482.7	439.7	415.5	401.0	388.8	378.6	371.9	368.9	367.1	364.6
17.5°	548.7	500.9	446.4	415.5	399.8	385.9	374.9	368.9	361.6	362.8	358.0
20°	586.9	520.3	448.2	407.6	388.3	374.9	360.4	357.4	353.1	349.5	350.7
22.5°	623.9	534.2	442.8	397.9	370.0	354.3	347.1	343.4	341.6	338.6	334.3
25°	657.2	549.4	434.3	380.4	350.7	339.2	332.5	331.9	327.7	327.7	319.8
27.5°	691.1	554.8	419.8	359.8	333.7	327.1	324.1	322.8	321.0	316.8	311.3
30°	729.8	556.6	398.5	338.6	318.6	311.3	315.5	318.6	310.7	302.9	305.3
32.5°	761.9	552.4	373.1	318.6	307.7	304.0	312.6	315.5	306.5	298.0	293.8
35°	800.8	542.1	348.3	302.9	296.8	304.0	311.3	311.3	293.2	282.9	280.5
37.5°	859.5	530.6	325.3	289.6	285.2	300.4	310.1	303.5	275.0	262.3	259.3
40°	922.5	523.4	302.9	276.2	279.2	294.4	299.8	279.2	250.2	242.3	239.8
42.5°	1013.9	508.8	282.9	264.7	273.8	285.9	285.9	248.9	238.0	233.8	233.2
45°	1127.8	498.5	265.3	255.0	265.9	269.0	259.3	233.2	225.3	224.1	224.7
47.5°	1183.5	478.5	247.1	243.5	251.3	252.0	226.5	220.5	213.8	212.0	210.8
50°	1175.0	442.8	223.5	228.3	239.3	233.2	206.6	207.7	201.7	201.1	198.1
52.5°	1115.7	386.4	199.9	211.4	223.5	205.9	190.2	189.0	189.0	181.1	178.1
55°	989.1	311.3	171.4	186.0	200.4	173.2	169.0	167.8	164.7	157.5	155.7
57.5°	783.2	228.3	129.0	144.8	170.2	147.2	146.6	141.1	133.3	127.8	127.8
60°	465.8	131.5	81.2	88.4	112.7	119.3	132.6	130.2	116.9	108.4	106.0
62.5°	212.6	67.8	51.5	52.7	60.6	77.5	104.2	120.5	101.8	87.2	86.0
65°	71.5	50.3	42.4	40.6	41.8	46.7	62.4	85.4	81.2	67.3	64.8
67.5°	43.6	44.8	40.0	37.0	37.0	36.3	35.7	38.8	47.8	46.7	47.2
70°	37.6	41.2	37.0	33.3	32.1	30.3	25.4	21.2	18.2	21.2	22.4
72.5°	30.3	32.7	31.5	28.5	25.4	23.0	18.2	13.9	10.3	9.1	9.1
75°	22.4	24.2	25.4	21.8	19.4	16.4	13.3	9.1	5.5	3.6	3.6
77.5°	16.4	18.2	18.8	17.0	14.6	11.5	8.5	6.0	3.1	1.2	1.2
80°	13.9	16.4	18.2	17.0	15.1	10.9	7.9	4.2	2.4	0.6	0.6
82.5°	13.3	16.4	18.2	16.4	14.6	10.3	7.9	4.9	1.8	0.6	0.6
85°	3.1	4.2	5.5	6.7	7.9	7.9	6.0	3.6	1.8	0.6	0.6
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	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)