

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: P526811

Luminaire Tested: **GALN-SA1D-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526811
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-SA1D-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA 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: 4822 lumens
Efficiency: N/A
Efficacy: 74.2 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

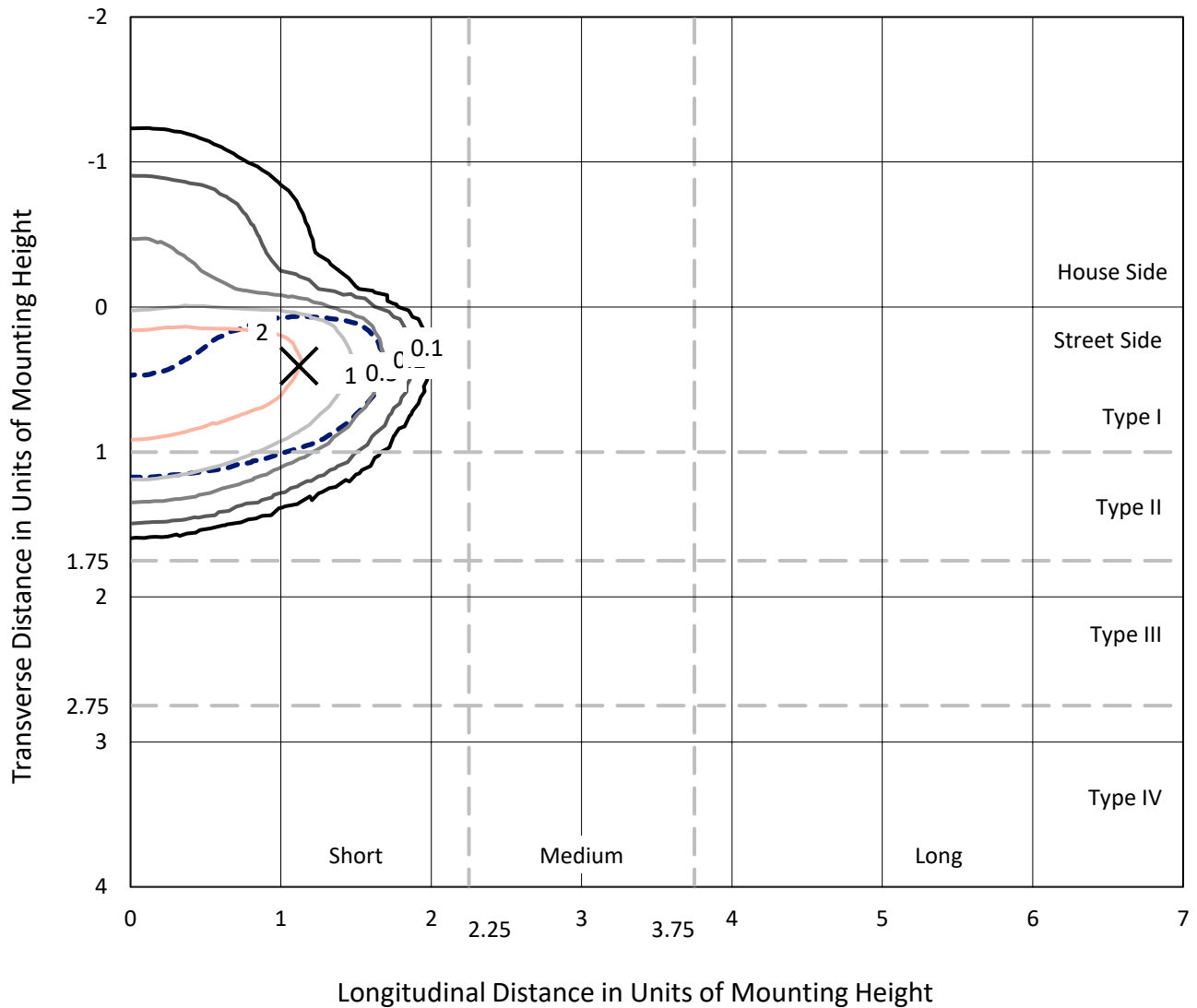
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

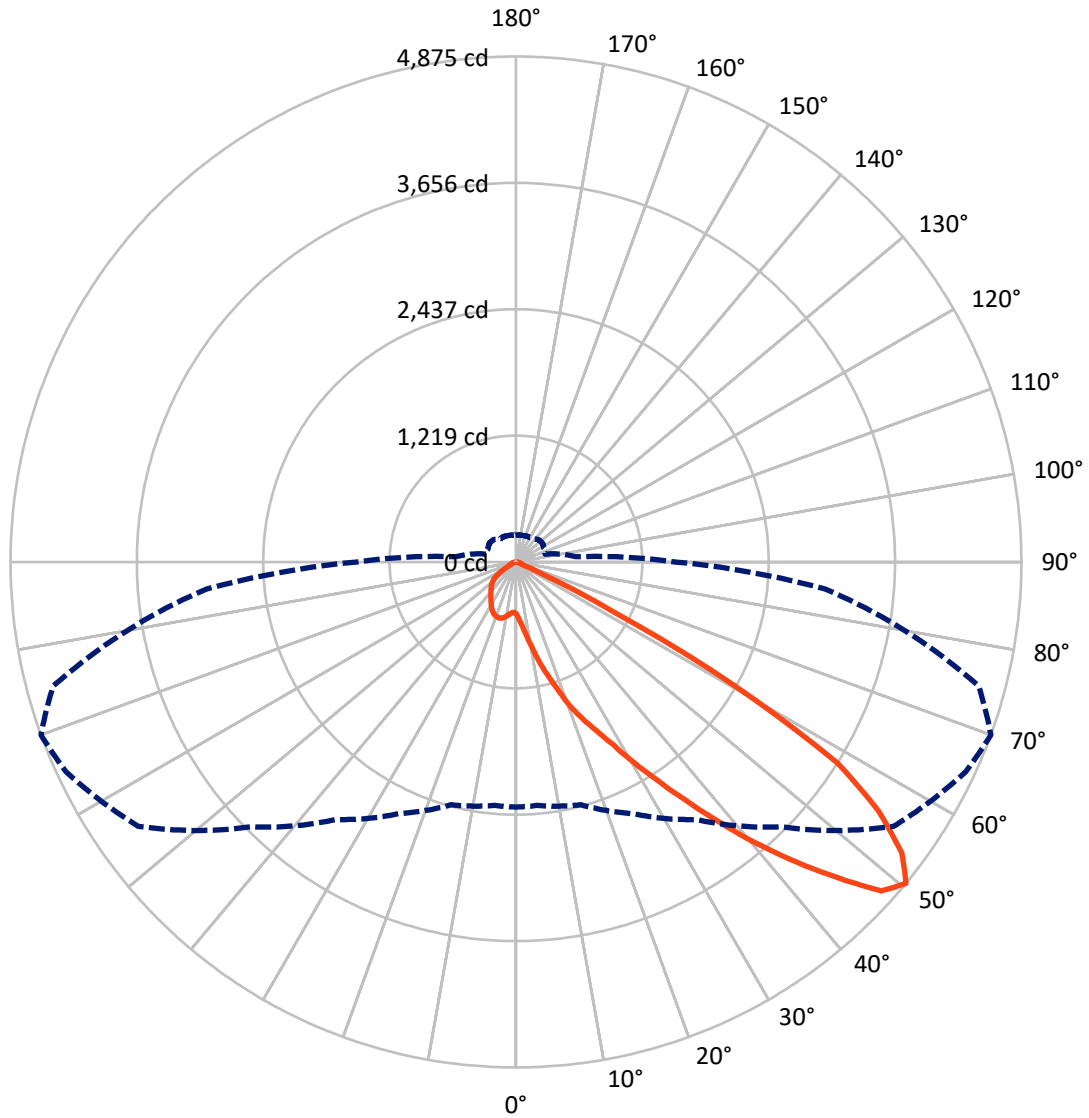
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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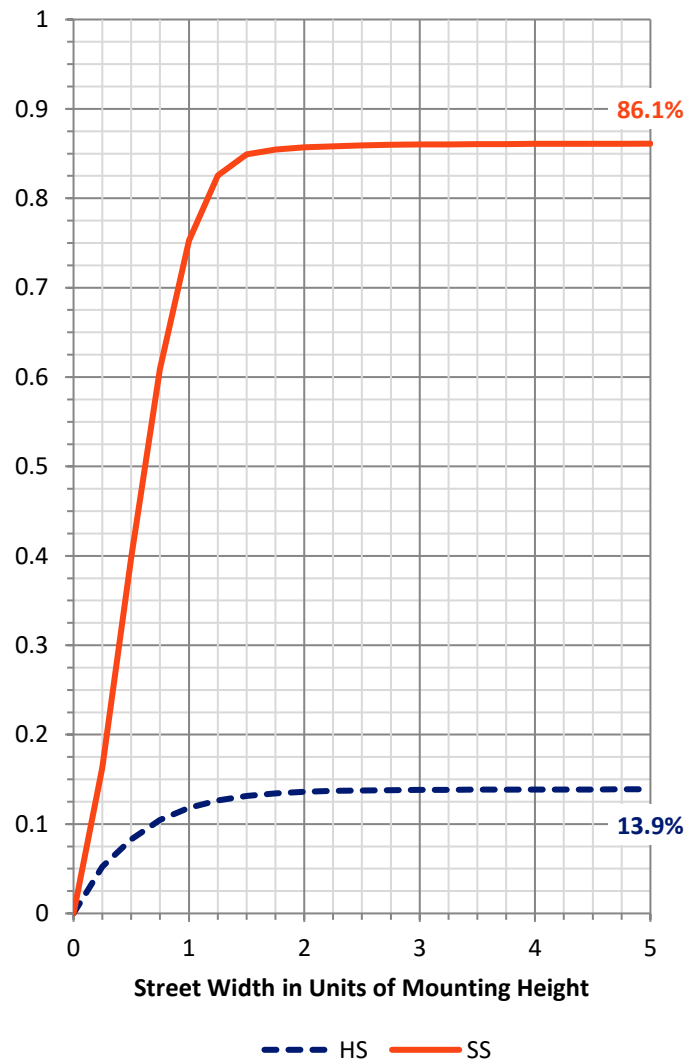
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	673.4	0.0	673.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4148.6	0.0	4148.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	4822.0	0.0	4822.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	1.3
10°-20°	280.9	5.8
20°-30°	589.4	12.2
30°-40°	1015.9	21.1
40°-50°	1484.7	30.8
50°-60°	1156.3	24.0
60°-70°	195.9	4.1
70°-80°	26.9	0.6
80°-90°	7.0	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°	4822.0	100.0
0°-180°	4822.0	100.0



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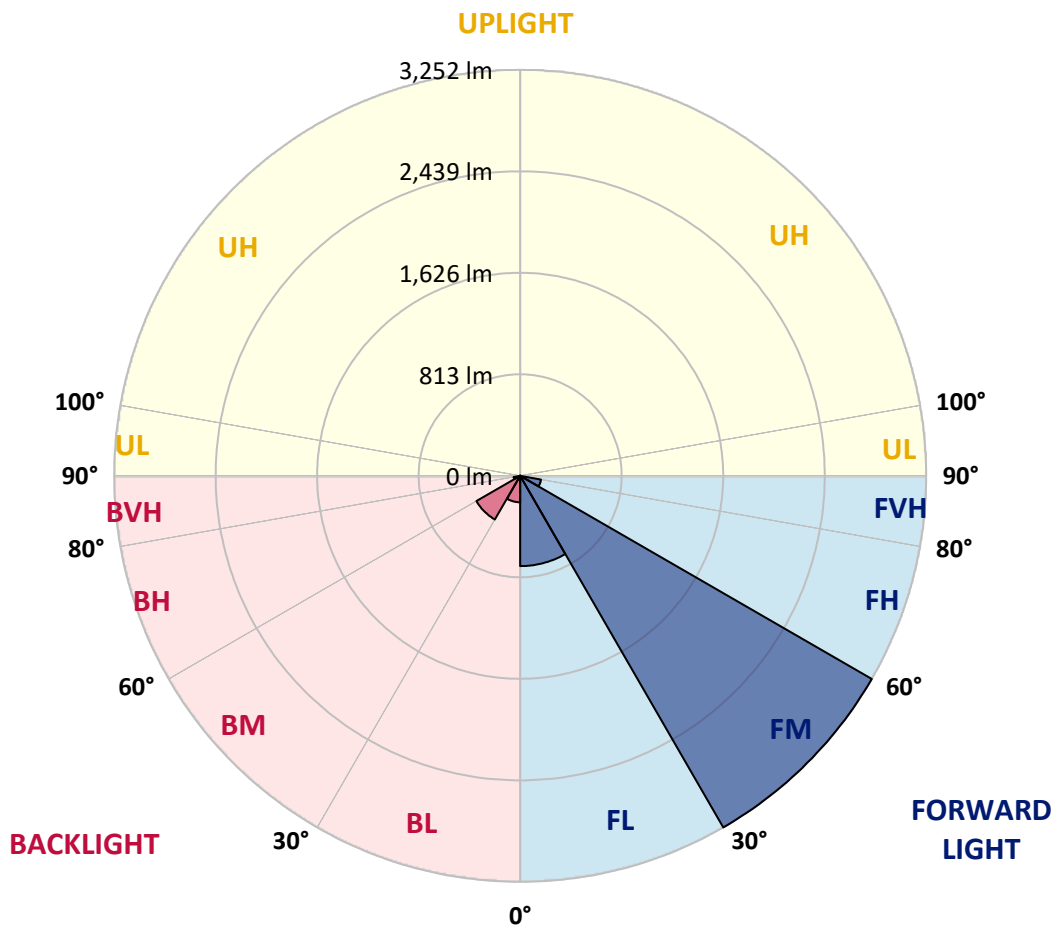
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	723.4	15.0			
FM (30°-60°)	3252.4	67.4			
FH (60°-80°)	169.6	3.5			G0/660
FVH (80°-90°)	3.2	0.1			G0/10
BL (0°-30°)	211.9	4.4	B1/500		
BM (30°-60°)	404.6	8.4	B1/1000		
BH (60°-80°)	53.2	1.1	B0/110		G0/110
BVH (80°-90°)	3.7	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°	499.5	499.5	499.5	499.5	499.5	499.5	499.5	499.5	499.5	499.5	499.5
2.5°	654.1	649.3	639.0	620.0	612.0	593.0	581.9	560.5	547.0	532.0	515.3
5°	921.2	896.7	881.6	860.2	797.6	758.7	694.5	639.8	614.4	586.7	548.6
7.5°	1197.1	1181.3	1160.7	1114.7	1071.9	991.0	880.8	760.3	708.8	661.2	585.9
10°	1425.5	1381.1	1378.7	1344.6	1297.8	1201.1	1068.7	918.9	826.9	757.1	639.0
12.5°	1584.8	1544.4	1562.6	1558.6	1515.0	1426.2	1273.2	1075.0	979.1	870.5	693.7
15°	1729.9	1713.2	1707.7	1702.9	1685.5	1619.7	1482.5	1265.3	1126.6	995.8	755.5
17.5°	1871.8	1829.0	1849.6	1853.6	1852.0	1792.5	1664.1	1446.1	1282.8	1128.2	820.5
20°	1997.9	2001.8	1974.1	1968.5	1963.8	1961.4	1836.1	1625.2	1474.6	1266.9	905.4
22.5°	2159.6	2131.8	2156.4	2140.6	2109.6	2090.6	1994.7	1783.8	1641.1	1434.2	991.8
25°	2350.7	2372.9	2315.0	2308.6	2274.5	2208.7	2122.3	1961.4	1801.2	1589.6	1085.3
27.5°	2586.1	2547.3	2532.2	2497.3	2435.5	2407.7	2306.3	2144.5	1994.7	1752.9	1175.7
30°	2788.3	2778.0	2702.7	2661.4	2607.5	2606.7	2464.8	2392.7	2246.8	2009.0	1300.2
32.5°	2953.2	2908.0	2880.2	2851.7	2808.1	2820.0	2700.3	2662.2	2515.6	2246.8	1446.9
35°	3063.4	3030.9	3014.2	2970.6	2957.9	3011.1	2961.1	2945.3	2824.7	2581.4	1618.9
37.5°	3098.3	3108.6	3105.4	3050.7	3077.7	3221.1	3285.4	3244.1	3180.7	2934.2	1805.2
40°	3129.2	3136.3	3120.5	3184.7	3261.6	3424.9	3657.2	3589.0	3565.2	3291.7	2064.5
42.5°	3146.6	3141.1	3141.1	3252.1	3368.6	3696.8	4016.3	3971.1	3952.9	3672.3	2364.1
45°	3071.3	3017.4	3075.3	3225.9	3460.6	3830.8	4303.3	4366.0	4339.8	4124.9	2714.5
47.5°	2789.9	2823.2	2855.7	3057.0	3348.8	3789.6	4479.3	4692.6	4740.9	4505.5	2944.5
50°	2364.1	2357.0	2424.4	2678.1	3032.5	3612.0	4445.2	4786.9	4874.9	4619.6	2992.8
52.5°	1719.6	1771.9	1844.8	2097.0	2517.1	3152.2	4005.2	4543.5	4660.9	4479.3	2961.1
55°	1001.3	943.4	1107.5	1320.8	1717.2	2377.6	3386.1	4027.4	4244.7	4224.0	2801.0
57.5°	401.2	388.5	444.8	599.4	895.9	1473.8	2462.4	3309.1	3657.2	3868.9	2461.6
60°	176.0	172.0	202.2	244.2	366.3	679.4	1347.0	2058.1	2421.2	2703.4	1694.2
62.5°	126.8	125.3	140.3	155.4	193.4	295.7	566.1	829.3	1033.8	1248.7	758.7
65°	102.3	106.2	116.5	124.5	142.7	164.1	199.8	230.7	283.0	293.3	167.3
67.5°	83.2	86.4	95.9	104.6	107.8	88.8	92.0	80.9	80.9	72.1	57.9
70°	61.0	61.8	72.9	83.2	66.6	35.7	62.6	62.6	56.3	53.9	49.2
72.5°	45.2	46.0	54.7	51.5	26.2	22.2	46.0	50.7	46.0	43.6	39.6
75°	33.3	34.1	28.5	11.9	11.1	14.3	27.0	34.9	33.3	32.5	30.1
77.5°	6.3	4.8	4.0	5.5	7.9	11.9	17.4	21.4	22.2	23.8	22.2
80°	0.8	0.8	2.4	4.8	8.7	12.7	18.2	20.6	21.4	22.2	20.6
82.5°	0.0	0.8	2.4	4.8	8.7	11.9	15.9	18.2	19.8	20.6	19.8
85°	0.0	0.8	1.6	4.0	7.1	8.7	7.9	5.5	4.8	5.5	4.0
87.5°	0.0	0.0	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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°	499.5	499.5	499.5	499.5	499.5	499.5	499.5	499.5	499.5	499.5	499.5
2.5°	505.8	502.6	491.5	479.6	469.3	474.1	469.3	465.4	467.0	465.4	463.8
5°	533.6	519.3	495.5	485.2	476.5	475.7	473.3	472.5	473.3	473.3	466.2
7.5°	559.7	536.7	511.4	500.3	490.0	490.7	485.2	485.2	484.4	480.4	478.9
10°	599.4	568.4	535.9	516.1	503.4	501.0	495.5	490.0	490.0	490.0	482.0
12.5°	643.0	604.1	559.7	536.7	521.7	509.8	501.0	499.5	490.7	489.2	485.2
15°	681.0	631.9	575.6	543.9	524.8	509.0	495.5	486.8	482.8	480.4	477.3
17.5°	718.3	655.6	584.3	543.9	523.2	505.0	490.7	482.8	473.3	474.9	468.5
20°	768.2	681.0	586.7	533.6	508.2	490.7	471.7	467.8	462.2	457.4	459.0
22.5°	816.6	699.2	579.5	520.9	484.4	463.8	454.3	449.5	447.1	443.2	437.6
25°	860.2	719.1	568.4	497.9	459.0	444.0	435.2	434.5	428.9	428.9	418.6
27.5°	904.6	726.2	549.4	470.9	436.8	428.1	424.1	422.6	420.2	414.6	407.5
30°	955.3	728.6	521.7	443.2	417.0	407.5	413.0	417.0	406.7	396.4	399.6
32.5°	997.3	723.0	488.4	417.0	402.7	398.0	409.1	413.0	401.2	390.1	384.5
35°	1048.1	709.6	455.9	396.4	388.5	398.0	407.5	407.5	383.7	370.2	367.1
37.5°	1125.0	694.5	425.7	379.0	373.4	393.2	405.9	397.2	359.9	343.3	339.3
40°	1207.4	685.0	396.4	361.5	365.5	385.3	392.4	365.5	327.4	317.1	313.9
42.5°	1327.1	666.0	370.2	346.5	358.3	374.2	374.2	325.8	311.6	306.0	305.2
45°	1476.2	652.5	347.2	333.8	348.0	352.0	339.3	305.2	294.9	293.3	294.1
47.5°	1549.1	626.3	323.5	318.7	329.0	329.8	296.5	288.6	279.9	277.5	275.9
50°	1538.0	579.5	292.5	298.9	313.2	305.2	270.3	271.9	264.0	263.2	259.2
52.5°	1460.3	505.8	261.6	276.7	292.5	269.6	248.9	247.4	247.4	237.0	233.1
55°	1294.6	407.5	224.4	243.4	262.4	226.7	221.2	219.6	215.6	206.1	203.7
57.5°	1025.1	298.9	168.9	189.5	222.8	192.7	191.9	184.7	174.4	167.3	167.3
60°	609.7	172.0	106.2	115.7	147.5	156.2	173.6	170.5	153.0	141.9	138.7
62.5°	278.3	88.8	67.4	69.0	79.3	101.5	136.4	157.8	133.2	114.2	112.6
65°	93.6	65.8	55.5	53.1	54.7	61.0	81.7	111.8	106.2	88.0	84.8
67.5°	57.1	58.7	52.3	48.4	48.4	47.6	46.8	50.7	62.6	61.0	61.8
70°	49.2	53.9	48.4	43.6	42.0	39.6	33.3	27.7	23.8	27.7	29.3
72.5°	39.6	42.8	41.2	37.3	33.3	30.1	23.8	18.2	13.5	11.9	11.9
75°	29.3	31.7	33.3	28.5	25.4	21.4	17.4	11.9	7.1	4.8	4.8
77.5°	21.4	23.8	24.6	22.2	19.0	15.1	11.1	7.9	4.0	1.6	1.6
80°	18.2	21.4	23.8	22.2	19.8	14.3	10.3	5.5	3.2	0.8	0.8
82.5°	17.4	21.4	23.8	21.4	19.0	13.5	10.3	6.3	2.4	0.8	0.8
85°	4.0	5.5	7.1	8.7	10.3	10.3	7.9	4.8	2.4	0.8	0.8
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	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)