

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: P526655

Luminaire Tested: **GALN-SA1C-760-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526655
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-760-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 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: 4705 lumens
Efficiency: N/A
Efficacy: 82.5 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

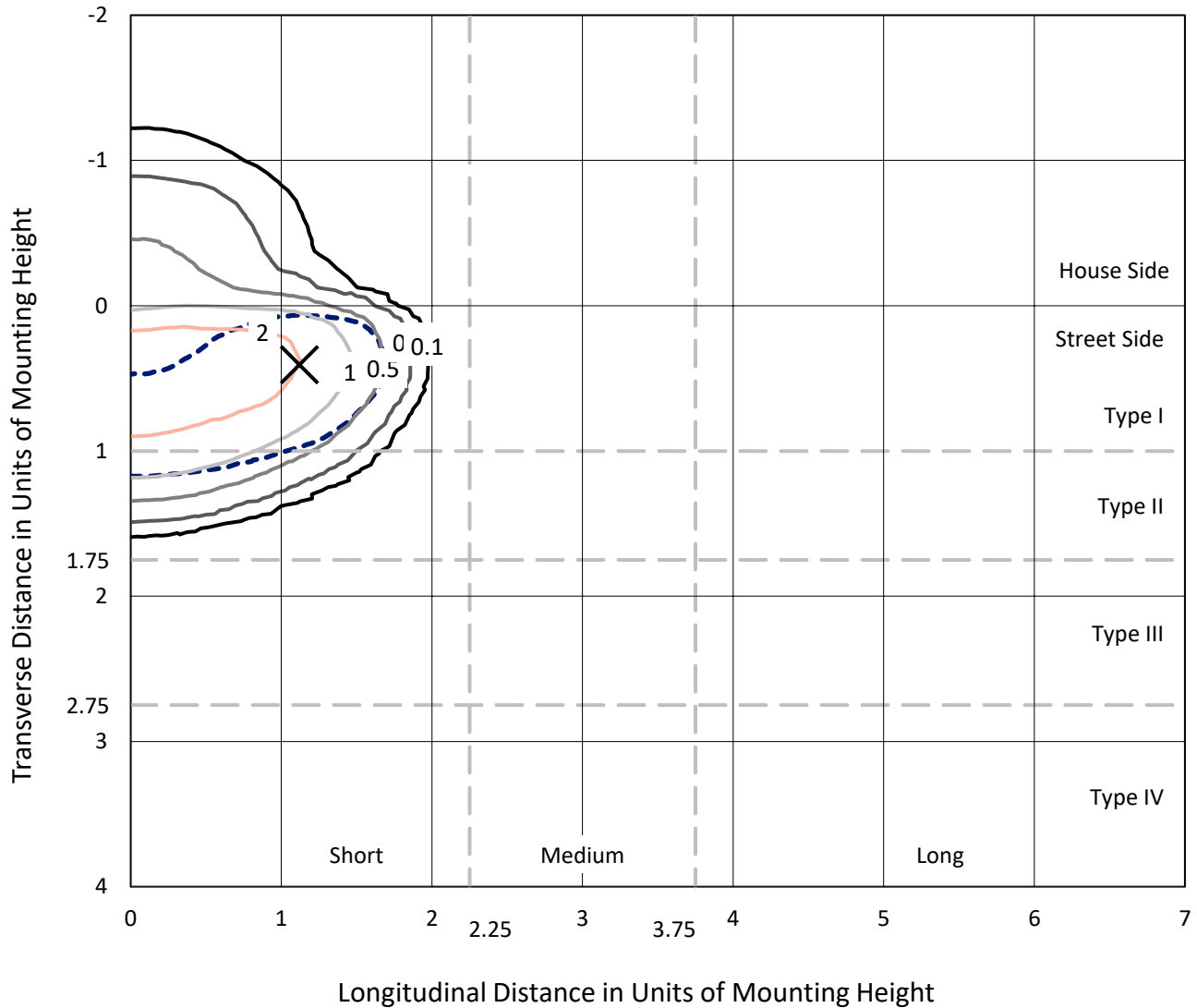
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

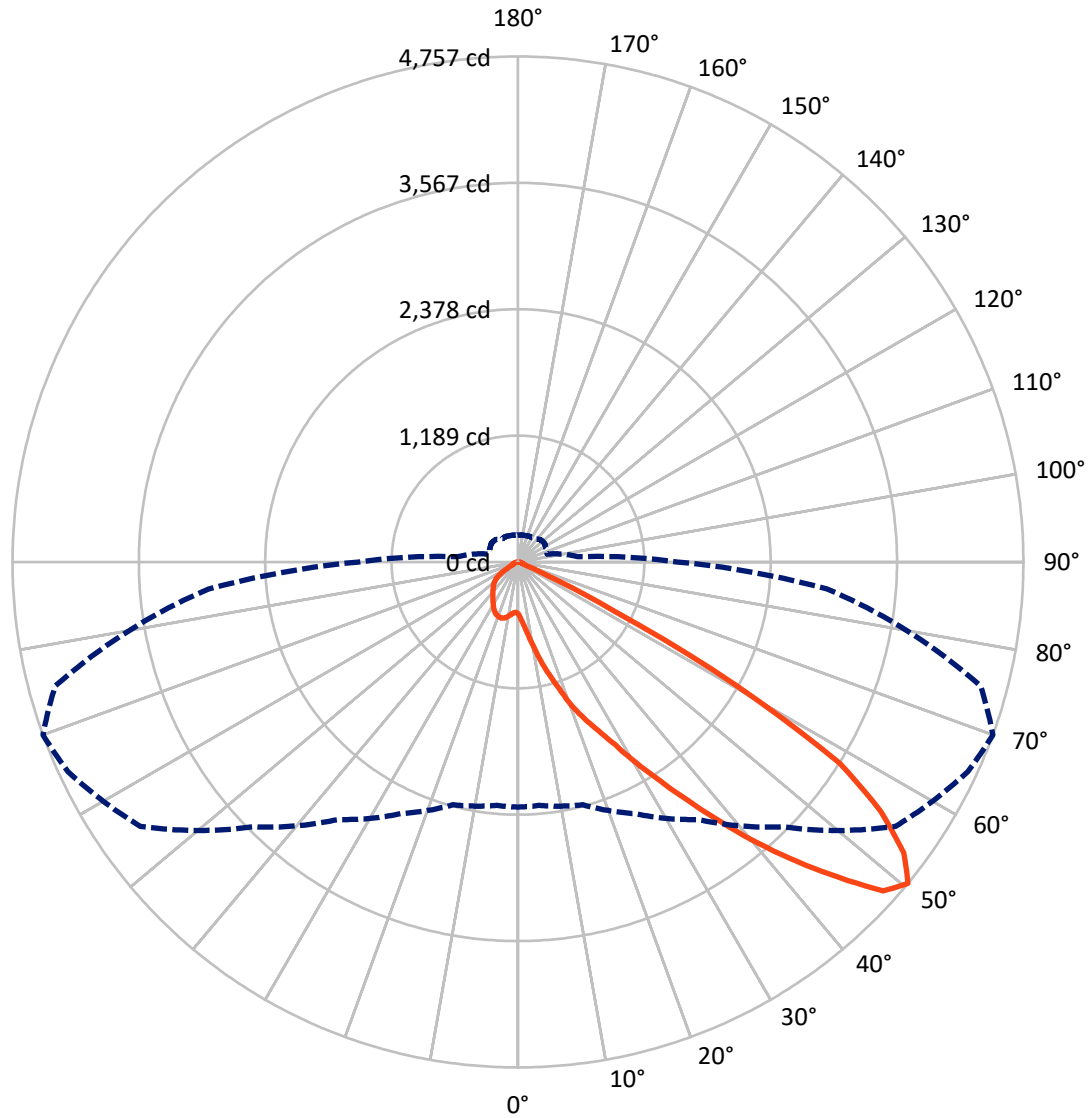
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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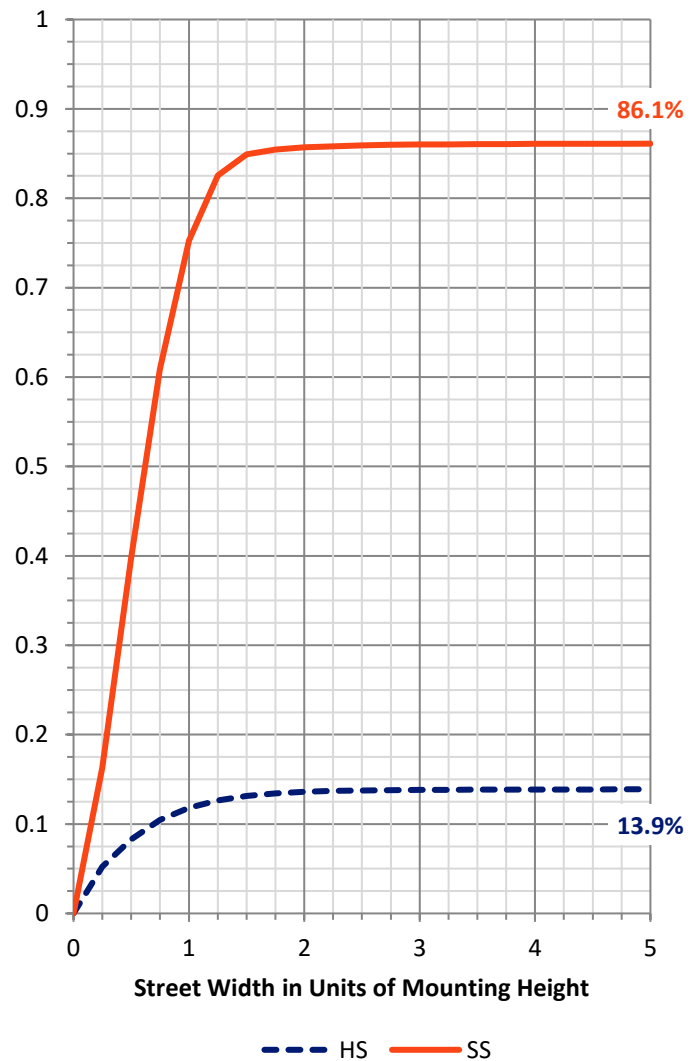
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	657.1	0.0	657.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4047.9	0.0	4047.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	4705.0	0.0	4705.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	1.3
10°-20°	274.1	5.8
20°-30°	575.1	12.2
30°-40°	991.2	21.1
40°-50°	1448.7	30.8
50°-60°	1128.3	24.0
60°-70°	191.2	4.1
70°-80°	26.3	0.6
80°-90°	6.8	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°	4705.0	100.0
0°-180°	4705.0	100.0



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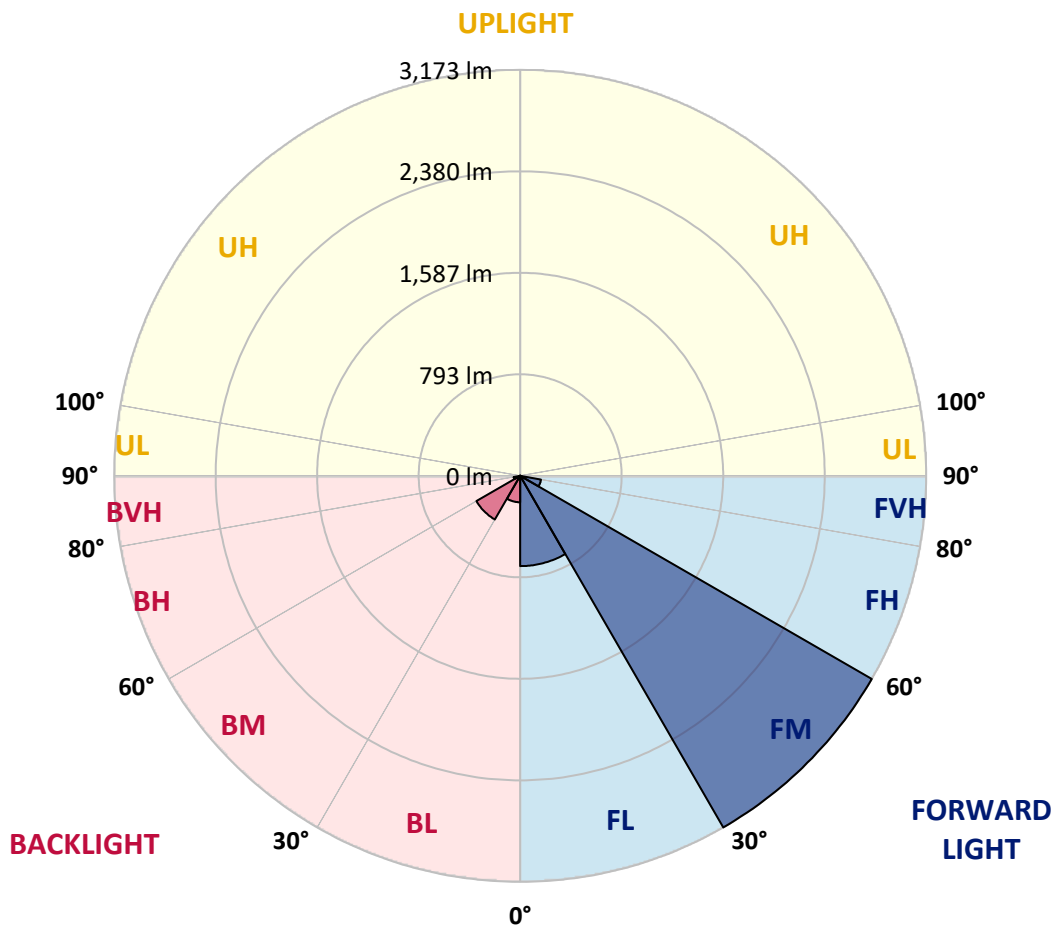
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	705.8	15.0			
FM (30°-60°)	3173.4	67.4			
FH (60°-80°)	165.5	3.5			G0/660
FVH (80°-90°)	3.1	0.1			G0/10
BL (0°-30°)	206.8	4.4	B1/500		
BM (30°-60°)	394.8	8.4	B1/1000		
BH (60°-80°)	51.9	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°	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3
2.5°	638.2	633.5	623.5	604.9	597.2	578.6	567.8	546.9	533.8	519.1	502.8
5°	898.9	874.9	860.2	839.3	778.2	740.3	677.6	624.3	599.5	572.4	535.3
7.5°	1168.1	1152.6	1132.5	1087.6	1045.9	967.0	859.4	741.8	691.6	645.2	571.7
10°	1390.9	1347.5	1345.2	1312.0	1266.3	1171.9	1042.8	896.6	806.8	738.8	623.5
12.5°	1546.4	1506.9	1524.7	1520.8	1478.3	1391.6	1242.3	1049.0	955.4	849.4	676.9
15°	1687.9	1671.7	1666.3	1661.6	1644.6	1580.4	1446.6	1234.6	1099.2	971.6	737.2
17.5°	1826.4	1784.6	1804.7	1808.6	1807.0	1749.0	1623.7	1411.0	1251.6	1100.8	800.6
20°	1949.4	1953.2	1926.2	1920.8	1916.1	1913.8	1791.6	1585.8	1438.8	1236.2	883.4
22.5°	2107.2	2080.1	2104.1	2088.6	2058.5	2039.9	1946.3	1740.5	1601.3	1399.4	967.7
25°	2293.6	2315.3	2258.8	2252.6	2219.4	2155.1	2070.8	1913.8	1757.5	1551.0	1059.0
27.5°	2523.4	2485.5	2470.8	2436.7	2376.4	2349.3	2250.3	2092.5	1946.3	1710.4	1147.2
30°	2720.6	2710.6	2637.1	2596.9	2544.3	2543.5	2405.0	2334.6	2192.3	1960.2	1268.6
32.5°	2881.5	2837.4	2810.4	2782.5	2740.0	2751.6	2634.8	2597.6	2454.5	2192.3	1411.8
35°	2989.1	2957.3	2941.1	2898.5	2886.2	2938.0	2889.3	2873.8	2756.2	2518.7	1579.6
37.5°	3023.1	3033.1	3030.1	2976.7	3003.0	3143.0	3205.6	3165.4	3103.5	2863.0	1761.4
40°	3053.3	3060.2	3044.7	3107.4	3182.4	3341.8	3568.5	3501.9	3478.7	3211.8	2014.4
42.5°	3070.3	3064.9	3064.9	3173.2	3286.9	3607.1	3918.9	3874.8	3857.0	3583.1	2306.8
45°	2996.8	2944.2	3000.7	3147.6	3376.6	3737.9	4198.9	4260.0	4234.5	4024.9	2648.7
47.5°	2722.2	2754.7	2786.4	2982.9	3267.5	3697.6	4370.6	4578.7	4625.9	4396.2	2873.0
50°	2306.8	2299.8	2365.6	2613.1	2958.9	3524.4	4337.4	4670.8	4756.6	4507.6	2920.2
52.5°	1677.9	1728.9	1800.1	2046.1	2456.1	3075.7	3908.0	4433.3	4547.8	4370.6	2889.3
55°	977.0	920.5	1080.7	1288.8	1675.5	2319.9	3303.9	3929.7	4141.7	4121.5	2733.0
57.5°	391.4	379.0	434.0	584.8	874.1	1438.1	2402.7	3228.9	3568.5	3775.0	2401.9
60°	171.7	167.9	197.3	238.3	357.4	662.9	1314.3	2008.2	2362.5	2637.9	1653.1
62.5°	123.8	122.2	136.9	151.6	188.7	288.5	552.3	809.1	1008.7	1218.4	740.3
65°	99.8	103.7	113.7	121.4	139.2	160.1	194.9	225.1	276.2	286.2	163.2
67.5°	81.2	84.3	93.6	102.1	105.2	86.6	89.7	78.9	78.9	70.4	56.5
70°	59.6	60.3	71.2	81.2	65.0	34.8	61.1	61.1	54.9	52.6	48.0
72.5°	44.1	44.9	53.4	50.3	25.5	21.7	44.9	49.5	44.9	42.5	38.7
75°	32.5	33.3	27.8	11.6	10.8	13.9	26.3	34.0	32.5	31.7	29.4
77.5°	6.2	4.6	3.9	5.4	7.7	11.6	17.0	20.9	21.7	23.2	21.7
80°	0.8	0.8	2.3	4.6	8.5	12.4	17.8	20.1	20.9	21.7	20.1
82.5°	0.0	0.8	2.3	4.6	8.5	11.6	15.5	17.8	19.3	20.1	19.3
85°	0.0	0.8	1.5	3.9	7.0	8.5	7.7	5.4	4.6	5.4	3.9
87.5°	0.0	0.0	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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°	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3
2.5°	493.5	490.4	479.6	468.0	457.9	462.6	457.9	454.1	455.6	454.1	452.5
5°	520.6	506.7	483.5	473.4	464.9	464.1	461.8	461.0	461.8	461.8	454.9
7.5°	546.1	523.7	498.9	488.1	478.1	478.8	473.4	473.4	472.6	468.8	467.2
10°	584.8	554.6	522.9	503.6	491.2	488.9	483.5	478.1	478.1	478.1	470.3
12.5°	627.4	589.5	546.1	523.7	509.0	497.4	488.9	487.3	478.8	477.3	473.4
15°	664.5	616.5	561.6	530.7	512.1	496.6	483.5	475.0	471.1	468.8	465.7
17.5°	700.8	639.7	570.1	530.7	510.6	492.8	478.8	471.1	461.8	463.4	457.2
20°	749.6	664.5	572.4	520.6	495.9	478.8	460.3	456.4	451.0	446.3	447.9
22.5°	796.8	682.3	565.5	508.2	472.6	452.5	443.3	438.6	436.3	432.4	427.0
25°	839.3	701.6	554.6	485.8	447.9	433.2	424.7	423.9	418.5	418.5	408.4
27.5°	882.6	708.6	536.1	459.5	426.2	417.7	413.9	412.3	410.0	404.6	397.6
30°	932.1	710.9	509.0	432.4	406.9	397.6	403.0	406.9	396.8	386.8	389.9
32.5°	973.1	705.5	476.5	406.9	393.0	388.3	399.2	403.0	391.4	380.6	375.2
35°	1022.7	692.3	444.8	386.8	379.0	388.3	397.6	397.6	374.4	361.3	358.2
37.5°	1097.7	677.6	415.4	369.8	364.3	383.7	396.1	387.6	351.2	335.0	331.1
40°	1178.1	668.4	386.8	352.7	356.6	376.0	382.9	356.6	319.5	309.4	306.3
42.5°	1294.9	649.8	361.3	338.0	349.7	365.1	365.1	317.9	304.0	298.6	297.8
45°	1440.4	636.6	338.8	325.7	339.6	343.5	331.1	297.8	287.8	286.2	287.0
47.5°	1511.5	611.1	315.6	311.0	321.0	321.8	289.3	281.6	273.1	270.7	269.2
50°	1500.7	565.5	285.4	291.6	305.6	297.8	263.8	265.3	257.6	256.8	253.0
52.5°	1424.9	493.5	255.3	270.0	285.4	263.0	242.9	241.4	241.4	231.3	227.4
55°	1263.2	397.6	218.9	237.5	256.0	221.2	215.8	214.3	210.4	201.1	198.8
57.5°	1000.2	291.6	164.8	184.9	217.4	188.0	187.2	180.2	170.2	163.2	163.2
60°	594.9	167.9	103.7	112.9	143.9	152.4	169.4	166.3	149.3	138.5	135.4
62.5°	271.5	86.6	65.8	67.3	77.4	99.0	133.1	153.9	130.0	111.4	109.8
65°	91.3	64.2	54.1	51.8	53.4	59.6	79.7	109.1	103.7	85.9	82.8
67.5°	55.7	57.2	51.1	47.2	47.2	46.4	45.6	49.5	61.1	59.6	60.3
70°	48.0	52.6	47.2	42.5	41.0	38.7	32.5	27.1	23.2	27.1	28.6
72.5°	38.7	41.8	40.2	36.4	32.5	29.4	23.2	17.8	13.2	11.6	11.6
75°	28.6	30.9	32.5	27.8	24.8	20.9	17.0	11.6	7.0	4.6	4.6
77.5°	20.9	23.2	24.0	21.7	18.6	14.7	10.8	7.7	3.9	1.5	1.5
80°	17.8	20.9	23.2	21.7	19.3	13.9	10.1	5.4	3.1	0.8	0.8
82.5°	17.0	20.9	23.2	20.9	18.6	13.2	10.1	6.2	2.3	0.8	0.8
85°	3.9	5.4	7.0	8.5	10.1	10.1	7.7	4.6	2.3	0.8	0.8
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	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)