

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: P453388

Luminaire Tested: **GALN-SA4B-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14797 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 164
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

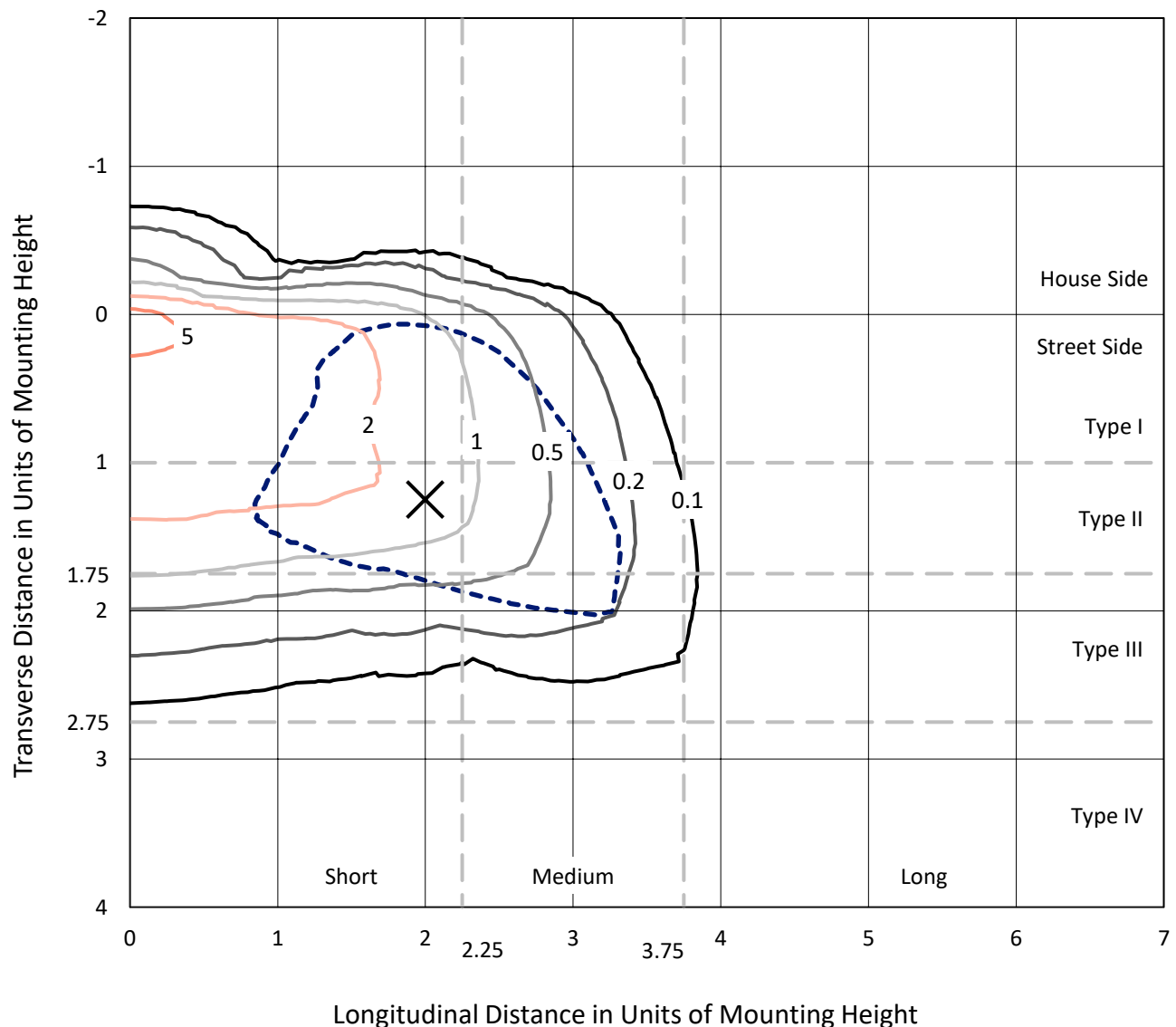


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Iso-Footcandle Lines of Horizontal Illumination

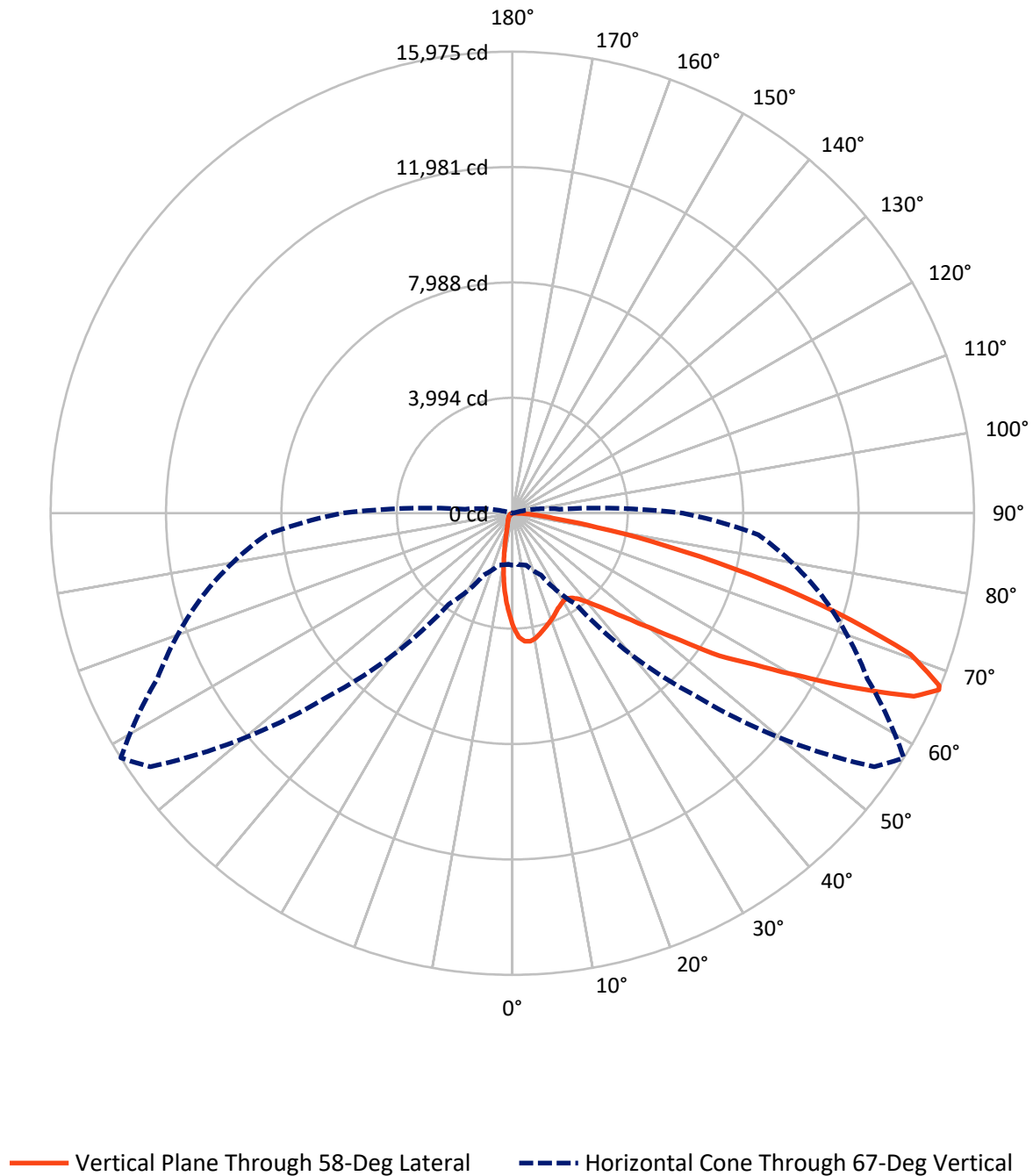
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1067.8	0.0	1067.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	13729.2	0.0	13729.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	14797.0	0.0	14797.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.3	2.2
10°-20°	687.5	4.6
20°-30°	931.6	6.3
30°-40°	1292.0	8.7
40°-50°	2060.6	13.9
50°-60°	3562.0	24.1
60°-70°	4068.9	27.5
70°-80°	1696.3	11.5
80°-90°	179.9	1.2
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°	14797.0	100.0
0°-180°	14797.0	100.0

Coefficient of Utilization



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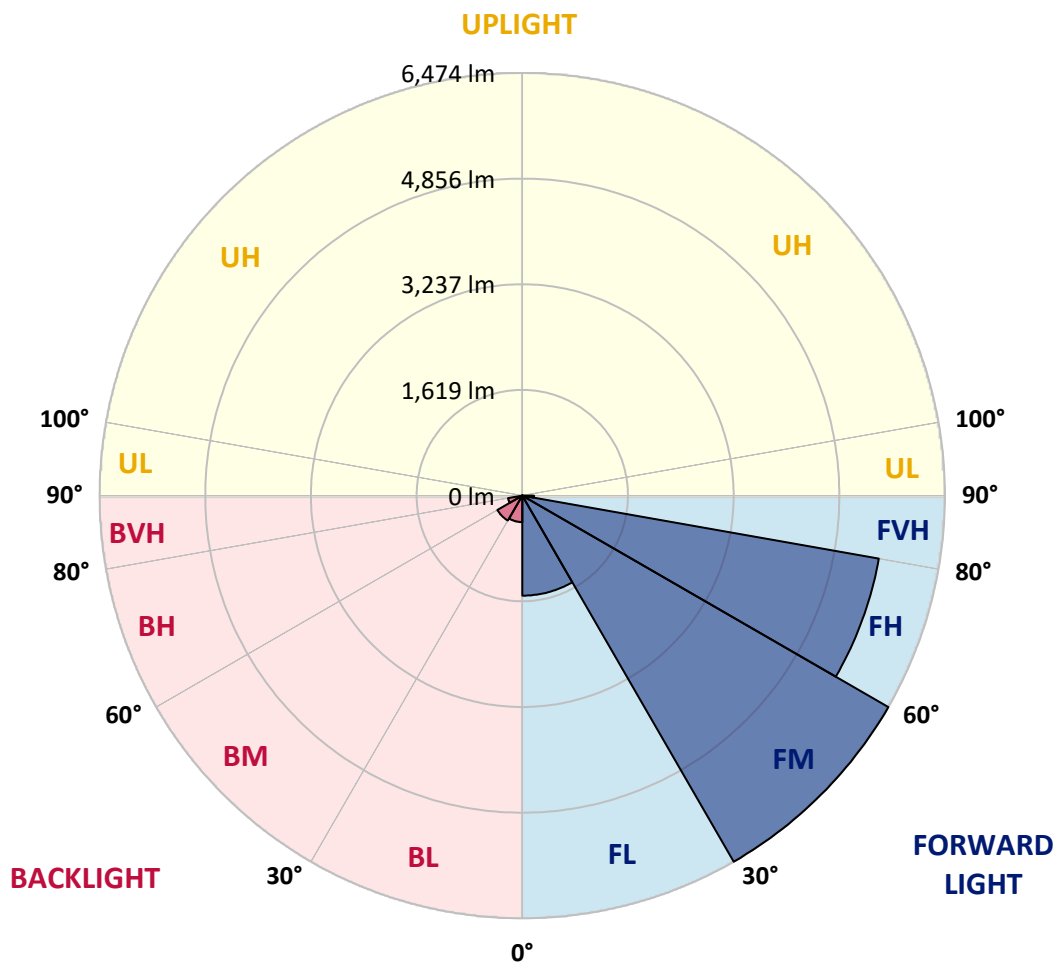
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1531.8	10.4			
FM	(30°-60°)	6474.3	43.8			
FH	(60°-80°)	5544.5	37.5			G3/7500
FVH	(80°-90°)	178.6	1.2			G2/225
BL	(0°-30°)	405.5	2.7	B1/500		
BM	(30°-60°)	440.3	3.0	B1/1000		
BH	(60°-80°)	220.8	1.5	B1/500		G1/500
BVH	(80°-90°)	1.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5
2.5°	4552.4	4559.3	4533.6	4512.9	4459.5	4402.1	4326.0	4285.4	4216.2	4096.6	3964.1
5°	4659.2	4668.1	4664.1	4659.2	4638.4	4583.1	4486.2	4450.6	4348.7	4153.9	3914.6
7.5°	4421.9	4454.5	4458.5	4497.0	4533.6	4538.6	4502.0	4475.3	4381.3	4152.9	3826.6
10°	4107.5	4129.2	4160.8	4205.3	4293.3	4366.5	4402.1	4398.2	4343.8	4122.3	3723.8
12.5°	3790.1	3801.9	3850.4	3926.5	4034.3	4158.9	4253.8	4272.6	4273.6	4085.7	3637.8
15°	3517.1	3512.2	3549.8	3637.8	3789.1	3945.3	4115.4	4145.0	4192.5	4050.1	3557.7
17.5°	3283.8	3309.5	3315.4	3412.3	3551.8	3754.5	3971.0	4023.4	4118.3	4019.5	3491.4
20°	3139.4	3153.3	3166.1	3220.5	3346.1	3559.7	3835.5	3907.7	4049.1	3991.8	3417.3
22.5°	3096.9	3105.8	3094.9	3111.7	3200.7	3390.6	3688.2	3784.1	3982.9	3966.1	3357.0
25°	3129.5	3138.4	3112.7	3093.0	3123.6	3253.1	3545.8	3662.5	3929.5	3961.1	3311.5
27.5°	3208.6	3225.4	3189.9	3154.3	3136.5	3179.0	3434.1	3569.5	3892.9	3984.8	3290.7
30°	3332.2	3342.1	3315.4	3271.9	3231.4	3188.9	3375.7	3505.3	3883.0	4040.2	3288.7
32.5°	3466.7	3487.5	3472.6	3444.0	3391.6	3290.7	3392.6	3507.3	3906.7	4120.3	3313.5
35°	3632.8	3656.6	3670.4	3664.5	3597.2	3471.7	3499.3	3596.2	3970.0	4267.6	3380.7
37.5°	3796.0	3816.7	3894.9	3921.6	3862.2	3743.6	3707.0	3771.3	4109.4	4460.5	3502.3
40°	3982.9	4010.6	4120.3	4222.2	4193.5	4068.9	4001.7	4055.0	4323.0	4751.2	3732.7
42.5°	4161.8	4211.3	4378.4	4558.3	4585.0	4445.6	4401.1	4418.9	4639.4	5169.4	4054.1
45°	4416.0	4462.4	4678.0	4922.2	5047.8	4939.0	4893.5	4890.6	5073.5	5757.8	4575.2
47.5°	4782.8	4824.3	5078.4	5319.7	5543.2	5558.0	5472.0	5501.7	5619.3	6446.0	5213.9
50°	5232.7	5330.6	5497.7	5748.9	6047.5	6288.7	6315.4	6275.9	6376.7	7242.9	5981.2
52.5°	5886.3	5923.9	6077.1	6283.8	6633.8	7043.2	7360.6	7306.2	7274.6	8002.3	6756.4
55°	6373.8	6424.2	6662.5	6946.3	7459.5	7999.3	8687.6	8706.3	8306.9	8732.0	7514.8
57.5°	6226.4	6303.6	6664.5	7235.0	8363.2	9350.0	9862.2	9875.1	9262.0	9441.0	8371.1
60°	5470.0	5506.6	6023.7	6785.1	8440.4	10813.5	11528.4	11424.5	10234.0	10234.0	9127.6
62.5°	3879.0	3936.4	4355.6	5475.9	7622.6	11321.7	13523.7	13309.2	11572.9	10992.4	9578.5
65°	2478.9	2423.5	2701.4	3456.8	5678.6	10571.2	15261.1	15273.9	12832.6	11296.0	9332.2
67°	1795.7	1773.9	1854.0	2363.2	3850.4	8886.3	15297.6	15975.0	13556.4	11104.2	8545.2
67.5°	1642.4	1659.2	1717.5	2131.8	3498.4	8086.4	15131.5	15933.4	13719.5	10988.5	8260.4
70°	1244.9	1216.2	1279.5	1507.9	2097.2	5101.2	13016.5	14613.4	13516.8	9840.5	6600.2
72.5°	915.6	912.7	1000.7	1233.0	1614.7	2717.2	9771.3	11717.2	11042.9	7493.1	4155.9
75°	618.0	645.7	786.1	1030.3	1463.4	1762.0	6661.5	8500.7	7666.1	4254.8	1698.7
77.5°	352.0	354.0	506.3	827.6	1314.1	1417.9	3947.3	5415.6	4058.0	1415.0	504.3
80°	152.3	167.1	251.2	601.2	1089.7	1255.8	2263.4	2976.3	1641.4	299.6	163.2
82.5°	56.4	66.2	110.7	369.8	795.0	1034.3	1367.5	1420.9	556.7	105.8	101.8
85°	0.0	2.0	40.5	173.0	414.3	461.8	913.6	842.5	246.2	50.4	66.2
87.5°	0.0	0.0	0.0	17.8	54.4	172.1	283.8	316.4	59.3	17.8	15.8
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°	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5	3922.5
2.5°	3892.9	3828.6	3667.4	3506.3	3386.6	3286.8	3136.5	3054.4	3010.9	2946.6	2950.6
5°	3795.0	3664.5	3380.7	3087.0	2849.7	2618.3	2341.5	2229.7	2135.8	2082.4	2046.8
7.5°	3649.6	3456.8	3036.6	2645.0	2280.2	1875.7	1572.2	1369.5	1233.0	1182.6	1134.1
10°	3490.4	3234.3	2687.5	2144.7	1638.4	1221.2	964.1	778.2	711.9	650.6	656.6
12.5°	3343.1	3031.6	2367.2	1692.8	1148.0	776.2	605.1	529.0	507.3	500.3	500.3
15°	3222.5	2837.8	2023.1	1272.6	787.1	557.7	484.5	463.7	455.8	453.9	453.9
17.5°	3093.9	2653.9	1712.6	940.3	572.5	466.7	442.0	428.1	425.2	423.2	423.2
20°	2979.2	2469.0	1417.9	700.1	462.8	420.2	404.4	395.5	392.6	390.6	391.6
22.5°	2870.5	2304.9	1141.1	529.0	407.4	382.7	366.8	357.9	352.0	347.1	348.1
25°	2773.6	2146.7	917.6	433.1	366.8	345.1	329.3	316.4	303.6	297.6	296.6
27.5°	2705.3	2008.2	714.9	370.8	330.3	306.5	286.8	270.9	254.1	245.2	243.2
30°	2649.0	1867.8	565.6	327.3	293.7	270.9	246.2	223.5	205.7	196.8	192.8
32.5°	2612.4	1734.3	445.9	291.7	263.0	235.3	207.6	184.9	165.1	156.2	154.3
35°	2606.5	1622.6	364.9	262.0	235.3	205.7	177.0	152.3	135.5	126.6	124.6
37.5°	2649.0	1536.6	305.5	238.3	212.6	180.0	148.3	125.6	110.7	103.8	102.8
40°	2762.7	1482.2	265.0	218.5	191.8	156.2	126.6	106.8	92.0	85.0	85.0
42.5°	2979.2	1484.2	238.3	199.7	171.1	133.5	107.8	89.0	76.1	70.2	68.2
45°	3317.4	1551.4	215.6	180.9	151.3	115.7	92.0	73.2	60.3	55.4	55.4
47.5°	3770.3	1684.9	195.8	162.2	133.5	98.9	78.1	59.3	48.5	43.5	43.5
50°	4362.6	1899.5	179.0	146.3	118.7	85.0	63.3	48.5	37.6	33.6	32.6
52.5°	4981.5	2164.5	159.2	132.5	101.8	72.2	51.4	37.6	28.7	25.7	24.7
55°	5664.8	2423.5	140.4	118.7	83.1	60.3	40.5	29.7	20.8	17.8	17.8
57.5°	6354.0	2677.7	117.7	98.9	65.3	44.5	31.6	21.8	13.8	10.9	10.9
60°	6937.4	2759.7	99.9	80.1	49.4	31.6	22.7	13.8	7.9	4.9	4.9
62.5°	7017.5	2482.9	84.0	61.3	35.6	21.8	11.9	7.9	3.0	2.0	2.0
65°	6582.4	2017.1	70.2	46.5	23.7	10.9	4.9	3.0	1.0	0.0	0.0
67°	5898.2	1635.5	57.4	34.6	16.8	6.9	3.0	1.0	0.0	0.0	0.0
67.5°	5723.1	1559.3	55.4	32.6	14.8	5.9	2.0	1.0	0.0	0.0	0.0
70°	4491.1	1167.8	39.6	19.8	8.9	4.0	0.0	0.0	0.0	0.0	0.0
72.5°	2791.4	660.5	28.7	11.9	5.9	2.0	0.0	0.0	0.0	0.0	0.0
75°	1055.0	231.4	19.8	7.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	328.3	88.0	11.9	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	110.7	33.6	7.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	68.2	13.8	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.5	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)