

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: P456417

Luminaire Tested: **GALN-SA7C-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28569 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 377
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

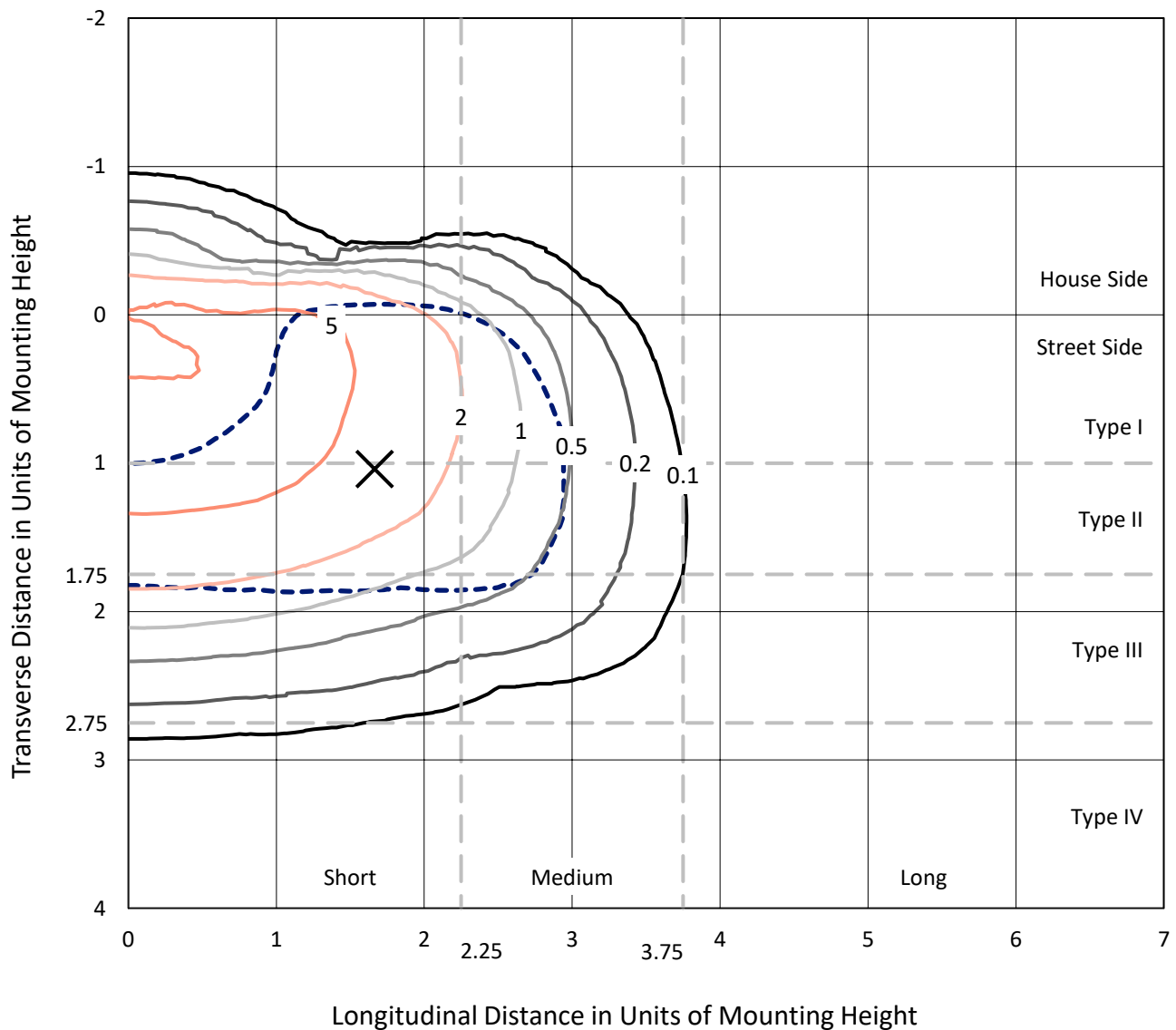


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

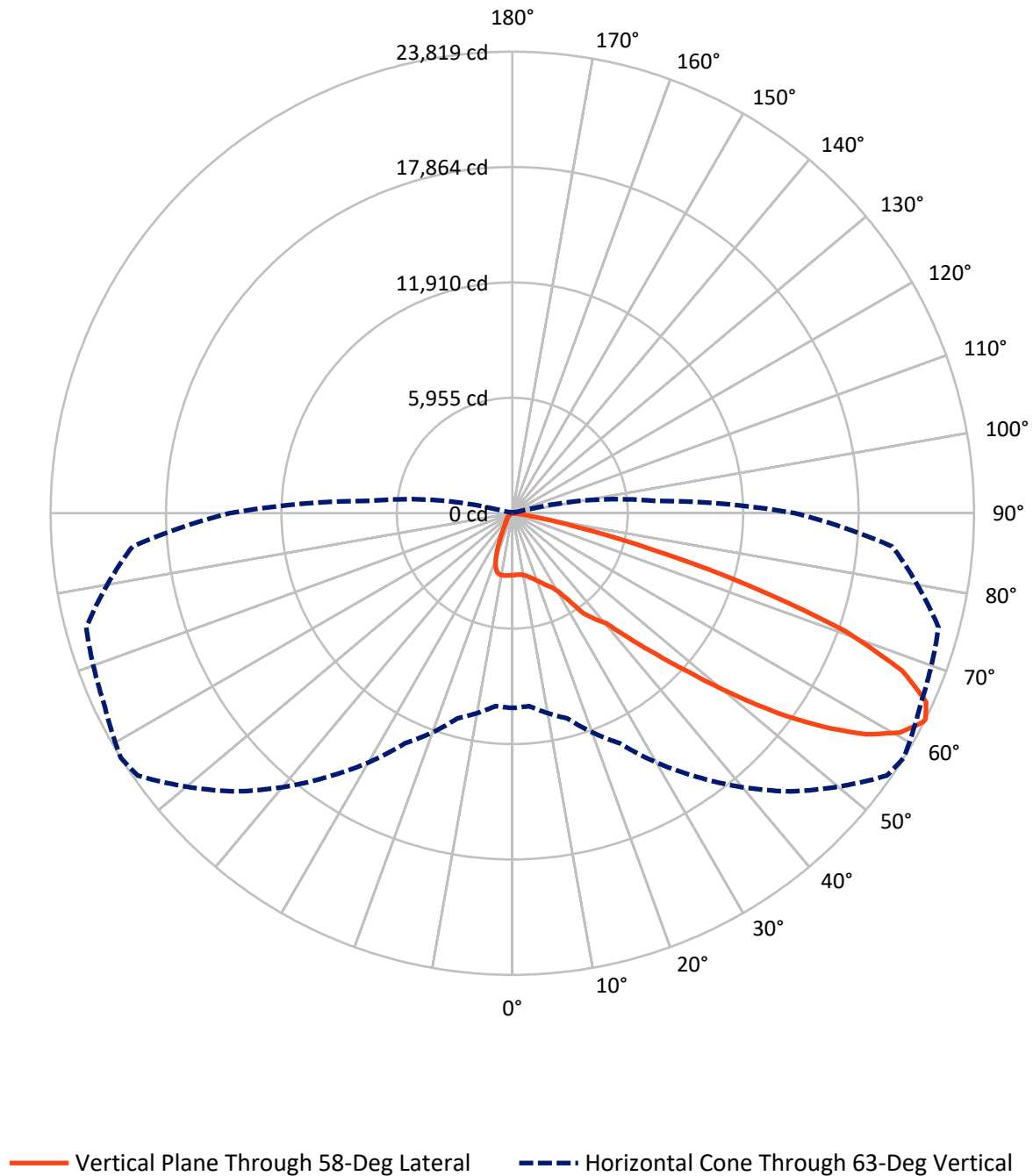


Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2958.2	0.0	2958.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	25610.9	0.0	25610.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	28569.0	0.0	28569.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.4	1.0
10°-20°	815.5	2.9
20°-30°	1415.3	5.0
30°-40°	2600.8	9.1
40°-50°	4896.0	17.1
50°-60°	8374.3	29.3
60°-70°	8018.4	28.1
70°-80°	2044.7	7.2
80°-90°	104.6	0.4
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°	28569.0	100.0
0°-180°	28569.0	100.0

Coefficient of Utilization



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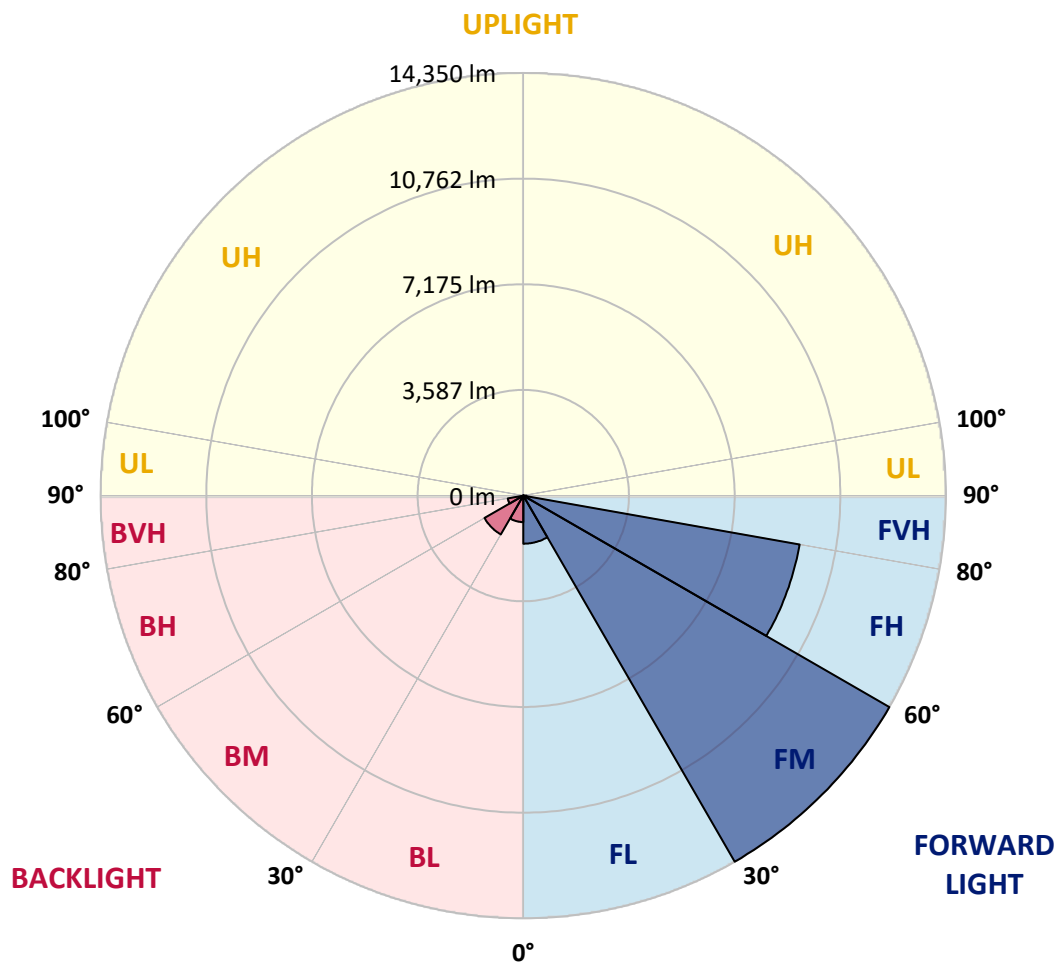
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1633.1	5.7			
FM	(30°-60°)	14349.6	50.2			
FH	(60°-80°)	9527.6	33.3			G4/12000
FVH	(80°-90°)	100.5	0.4			G2/225
BL	(0°-30°)	897.1	3.1	B2/1000		
BM	(30°-60°)	1521.5	5.3	B2/2500		
BH	(60°-80°)	535.5	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4
2.5°	3118.8	3129.6	3140.3	3144.6	3159.7	3174.7	3185.5	3183.4	3200.6	3209.2	3209.2
5°	2994.1	2994.1	3022.0	3047.8	3090.9	3133.9	3174.7	3183.4	3215.6	3245.7	3256.5
7.5°	2888.7	2895.1	2916.6	2964.0	3022.0	3097.3	3179.1	3198.4	3254.3	3321.0	3349.0
10°	2839.2	2843.5	2871.5	2920.9	2994.1	3097.3	3211.3	3247.9	3333.9	3439.3	3478.0
12.5°	2828.5	2834.9	2862.9	2918.8	3002.7	3127.4	3282.3	3321.0	3445.8	3581.3	3639.3
15°	2847.8	2852.1	2880.1	2940.3	3032.8	3181.2	3376.9	3430.7	3579.1	3736.1	3811.4
17.5°	2916.6	2912.3	2931.7	2981.2	3084.4	3247.9	3490.9	3555.5	3729.7	3944.8	3994.2
20°	3209.2	3181.2	3164.0	3121.0	3161.8	3342.5	3628.6	3723.2	3938.3	4157.7	4192.1
22.5°	3839.4	3777.0	3654.4	3486.6	3357.6	3471.6	3794.2	3903.9	4181.4	4396.5	4396.5
25°	4641.7	4562.1	4439.5	4073.8	3757.6	3684.5	3981.3	4119.0	4445.9	4663.2	4592.2
27.5°	5646.2	5583.8	5345.0	4919.1	4435.2	4056.6	4198.6	4325.5	4680.4	4942.8	4794.4
30°	6463.5	6433.4	6237.7	5856.9	5323.5	4770.7	4603.0	4686.8	4992.3	5295.6	5142.8
32.5°	7153.9	7153.9	6953.9	6599.0	6100.0	5609.6	5289.1	5349.3	5641.8	5992.4	5708.5
35°	7913.2	7887.4	7726.1	7388.4	6829.2	6396.8	6265.6	6347.3	6611.9	6872.2	6173.1
37.5°	8711.2	8702.6	8534.8	8207.9	7751.9	7207.7	6900.1	6921.6	7057.2	7216.3	6717.3
40°	9578.0	9590.9	9371.5	9169.3	8739.2	8182.1	7592.7	7457.2	7584.1	8033.7	7721.8
42.5°	10601.9	10571.7	10477.1	10201.8	9855.5	9522.1	8814.4	8765.0	8876.8	9358.6	9020.9
45°	11791.3	11834.3	11670.9	11518.1	11285.8	11008.4	10416.9	10330.8	10453.4	11202.0	10722.3
47.5°	12982.9	12942.1	13047.4	13019.5	13144.2	12937.8	12415.1	12238.7	12533.4	13243.2	12537.7
50°	13890.6	13935.8	14155.2	14475.7	15011.2	15127.4	14626.2	14566.0	14697.2	15153.2	14161.6
52.5°	14480.0	14630.5	14974.7	15798.5	16764.2	17514.9	17134.2	17101.9	17048.1	17170.8	15714.6
55°	14865.0	15017.7	15467.2	16680.3	18343.0	19562.6	19581.9	19444.3	19089.4	19001.2	17166.4
57.5°	14628.4	14658.5	15299.5	16921.2	19218.4	21023.0	21655.4	21517.7	20861.7	20528.3	18448.4
60°	13148.5	13210.9	14103.5	16009.3	18837.7	21500.5	23029.8	22967.5	22249.1	21872.7	19446.4
62.5°	10526.6	10707.3	11625.7	13750.8	17067.5	20696.1	23586.9	23763.3	23204.1	22685.7	19760.5
63°	10044.8	9986.7	10956.8	13092.6	16598.6	20298.2	23595.5	23819.2	23247.1	22763.1	19674.4
65°	7435.7	7609.9	8240.2	10324.4	13813.2	18446.2	23064.3	23460.0	23087.9	22421.1	18721.6
67.5°	4174.9	4166.3	4863.2	6756.0	9668.4	14469.2	20855.3	21692.0	21614.5	20119.7	15518.8
70°	2043.4	2075.6	2361.7	3501.7	5607.4	9982.4	17329.9	18233.3	18261.3	15802.8	10730.9
72.5°	924.9	939.9	1144.3	1705.7	2882.2	5314.9	11941.9	12804.4	12645.2	10070.6	5925.8
75°	488.3	520.5	630.2	858.2	1389.5	2191.8	6495.8	7330.3	6996.9	4600.8	2181.0
77.5°	361.4	372.1	428.0	546.3	744.2	853.9	2802.6	3333.9	3123.1	1664.8	722.7
80°	264.6	273.2	318.3	387.2	468.9	434.5	1056.1	1211.0	1086.2	565.7	221.5
82.5°	161.3	163.5	232.3	288.2	294.7	243.1	348.4	374.3	391.5	318.3	120.5
85°	58.1	73.1	157.0	208.6	174.2	122.6	146.3	161.3	176.4	202.2	71.0
87.5°	6.5	8.6	75.3	101.1	49.5	45.2	53.8	60.2	64.5	75.3	34.4
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°	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4
2.5°	3217.8	3226.4	3219.9	3209.2	3207.0	3200.6	3187.7	3187.7	3187.7	3192.0	3187.7
5°	3265.1	3271.5	3256.5	3235.0	3211.3	3181.2	3148.9	3129.6	3127.4	3123.1	3112.4
7.5°	3355.4	3364.0	3329.6	3278.0	3213.5	3140.3	3071.5	3007.0	2976.9	2953.2	2953.2
10°	3486.6	3495.2	3426.4	3333.9	3204.9	3056.4	2893.0	2744.6	2628.4	2574.6	2561.7
12.5°	3643.6	3648.0	3534.0	3372.6	3159.7	2873.6	2525.2	2200.4	1974.5	1871.3	1860.5
15°	3815.7	3785.6	3635.0	3387.7	3030.6	2497.2	1895.0	1497.0	1262.6	1193.8	1219.6
17.5°	3989.9	3934.0	3712.5	3364.0	2740.3	1895.0	1273.3	1021.7	948.6	929.2	929.2
20°	4153.4	4076.0	3768.4	3260.8	2237.0	1305.6	944.3	884.0	871.1	858.2	860.4
22.5°	4316.9	4198.6	3817.9	3030.6	1667.0	933.5	845.3	826.0	808.7	791.5	789.4
25°	4476.1	4312.6	3837.2	2604.8	1135.7	802.3	772.2	746.4	712.0	692.6	688.3
27.5°	4641.7	4450.2	3824.3	2067.0	828.1	718.4	688.3	651.7	610.9	576.4	576.4
30°	4960.0	4712.7	3779.2	1486.3	696.9	632.4	593.7	535.6	490.4	456.0	453.8
32.5°	5394.5	5054.6	3624.3	1045.3	619.5	557.1	499.0	434.5	387.2	361.4	361.4
35°	5781.7	5398.8	3333.9	770.0	557.1	484.0	413.0	350.6	314.0	296.8	290.4
37.5°	6371.0	5902.1	2933.8	625.9	496.9	419.4	346.3	288.2	258.1	245.2	245.2
40°	7255.0	6517.3	2443.4	548.5	438.8	357.1	288.2	243.1	219.4	204.3	204.3
42.5°	8352.0	7270.1	1946.6	492.6	385.0	307.6	240.9	206.5	185.0	174.2	172.1
45°	9732.9	8063.8	1499.2	440.9	342.0	262.4	204.3	174.2	152.7	146.3	148.4
47.5°	11174.0	8762.8	1161.5	395.8	296.8	221.5	174.2	150.6	135.5	126.9	126.9
50°	12404.3	9244.6	881.9	344.1	262.4	187.1	152.7	135.5	122.6	118.3	116.1
52.5°	13432.5	9384.4	675.4	299.0	230.1	161.3	135.5	122.6	111.8	105.4	105.4
55°	14307.9	9261.8	529.1	251.7	193.6	139.8	120.5	109.7	96.8	90.3	88.2
57.5°	14819.8	8868.2	404.4	208.6	157.0	116.1	105.4	92.5	77.4	66.7	66.7
60°	15077.9	8296.1	309.7	172.1	120.5	92.5	86.0	68.8	53.8	45.2	43.0
62.5°	14768.2	7536.8	234.4	135.5	90.3	68.8	58.1	49.5	34.4	25.8	25.8
63°	14576.7	7317.4	225.8	129.1	83.9	64.5	53.8	45.2	30.1	23.7	21.5
65°	13288.4	6360.3	185.0	103.2	66.7	45.2	36.6	32.3	21.5	10.8	8.6
67.5°	10552.4	4865.4	146.3	77.4	47.3	32.3	21.5	19.4	6.5	0.0	0.0
70°	7134.6	3142.5	114.0	55.9	32.3	19.4	10.8	8.6	2.2	0.0	0.0
72.5°	3721.1	1611.0	88.2	40.9	19.4	12.9	6.5	2.2	0.0	0.0	0.0
75°	1316.4	548.5	64.5	25.8	12.9	6.5	2.2	0.0	0.0	0.0	0.0
77.5°	397.9	204.3	40.9	19.4	8.6	4.3	0.0	0.0	0.0	0.0	0.0
80°	139.8	75.3	23.7	12.9	6.5	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	68.8	36.6	15.1	10.8	6.5	2.2	0.0	0.0	0.0	0.0	0.0
85°	38.7	23.7	12.9	10.8	6.5	4.3	0.0	0.0	0.0	0.0	0.0
87.5°	28.0	17.2	12.9	10.8	8.6	4.3	2.2	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)