

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: P456881

Luminaire Tested: **GALN-SA8A-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456881
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-SA8A-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA 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: 21544 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 244
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

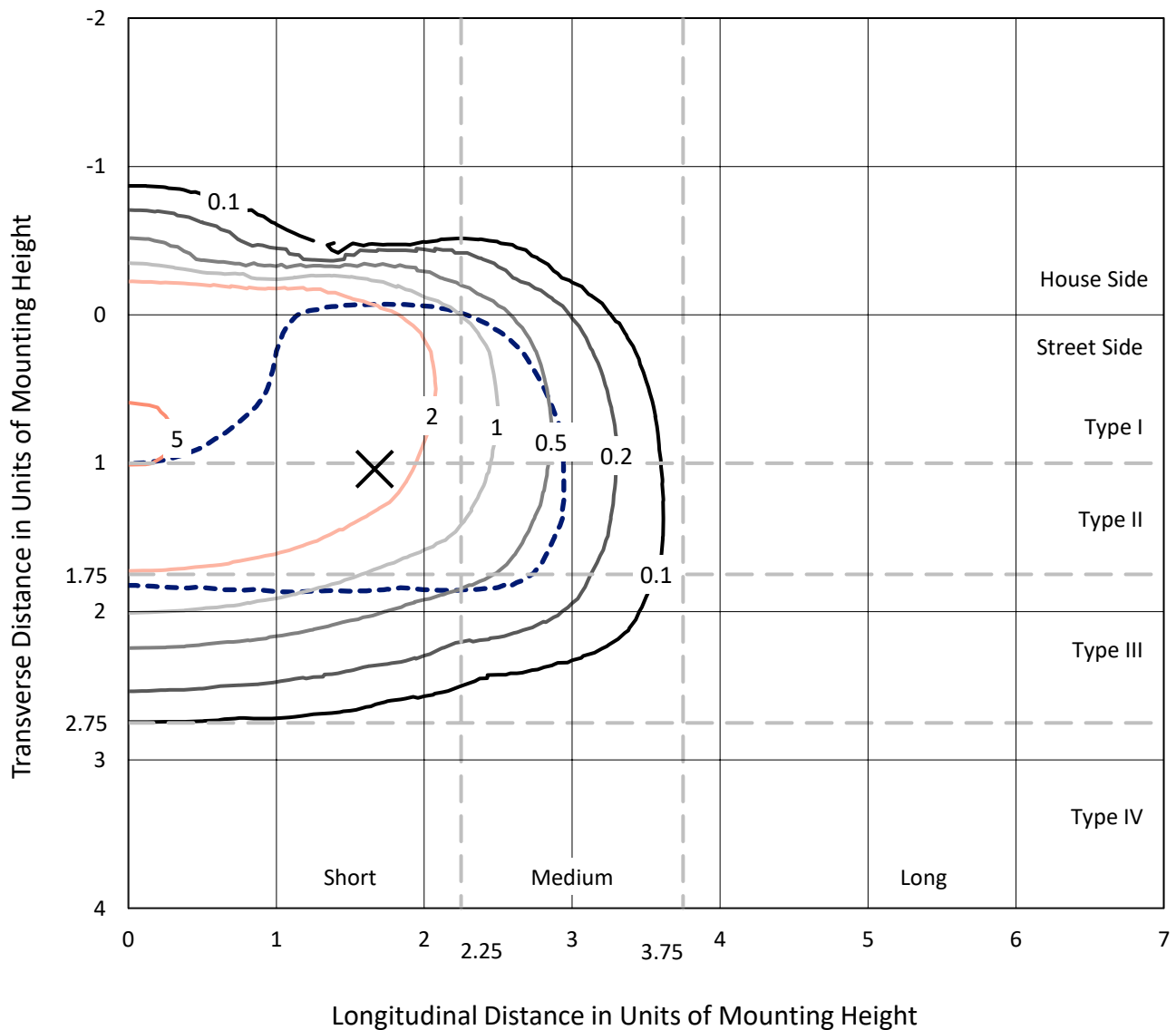


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

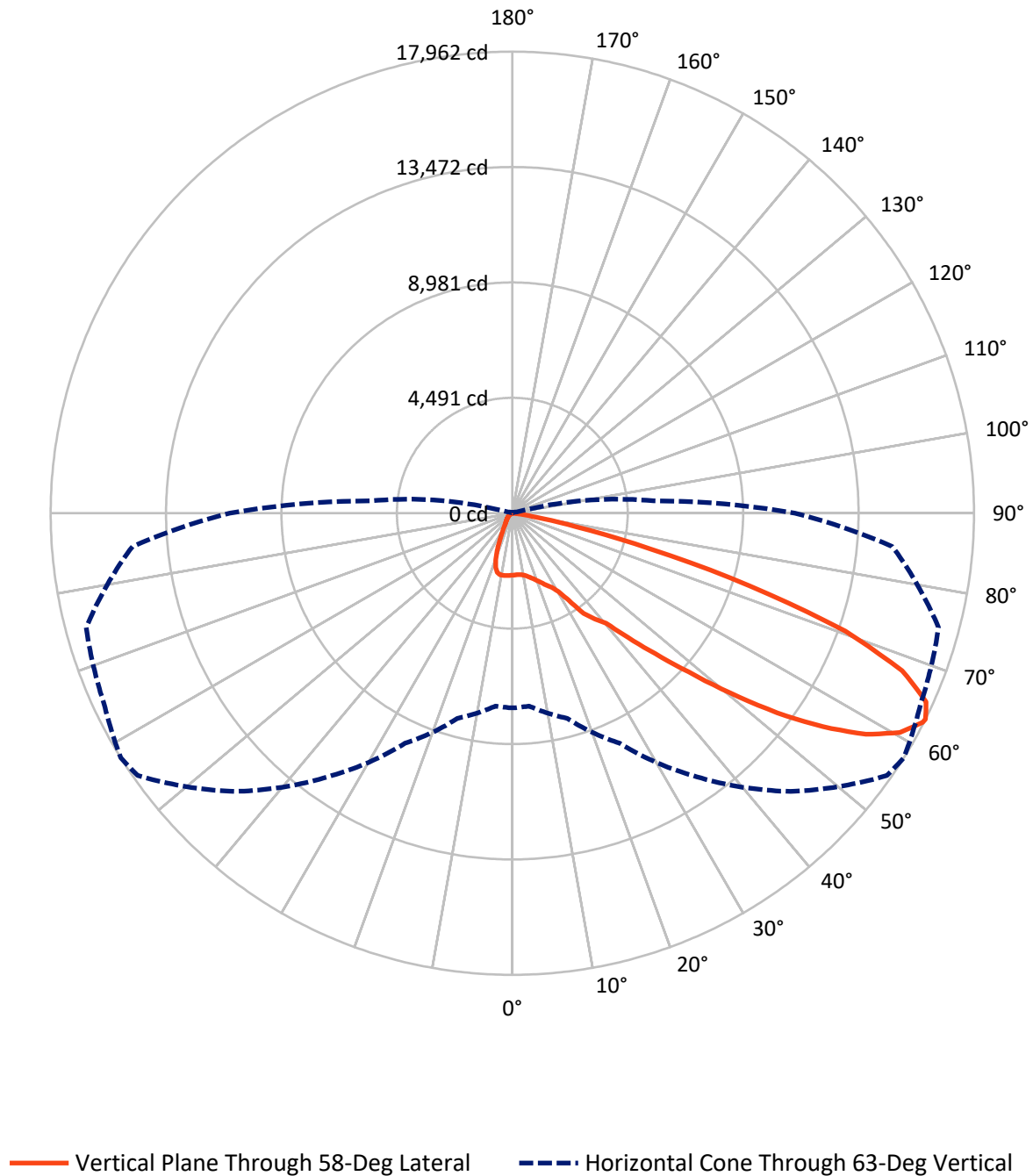


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2230.7	0.0	2230.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	19313.3	0.0	19313.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	21544.0	0.0	21544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.8	1.0
10°-20°	615.0	2.9
20°-30°	1067.3	5.0
30°-40°	1961.3	9.1
40°-50°	3692.1	17.1
50°-60°	6315.1	29.3
60°-70°	6046.7	28.1
70°-80°	1541.9	7.2
80°-90°	78.8	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°	21544.0	100.0
0°-180°	21544.0	100.0

Coefficient of Utilization



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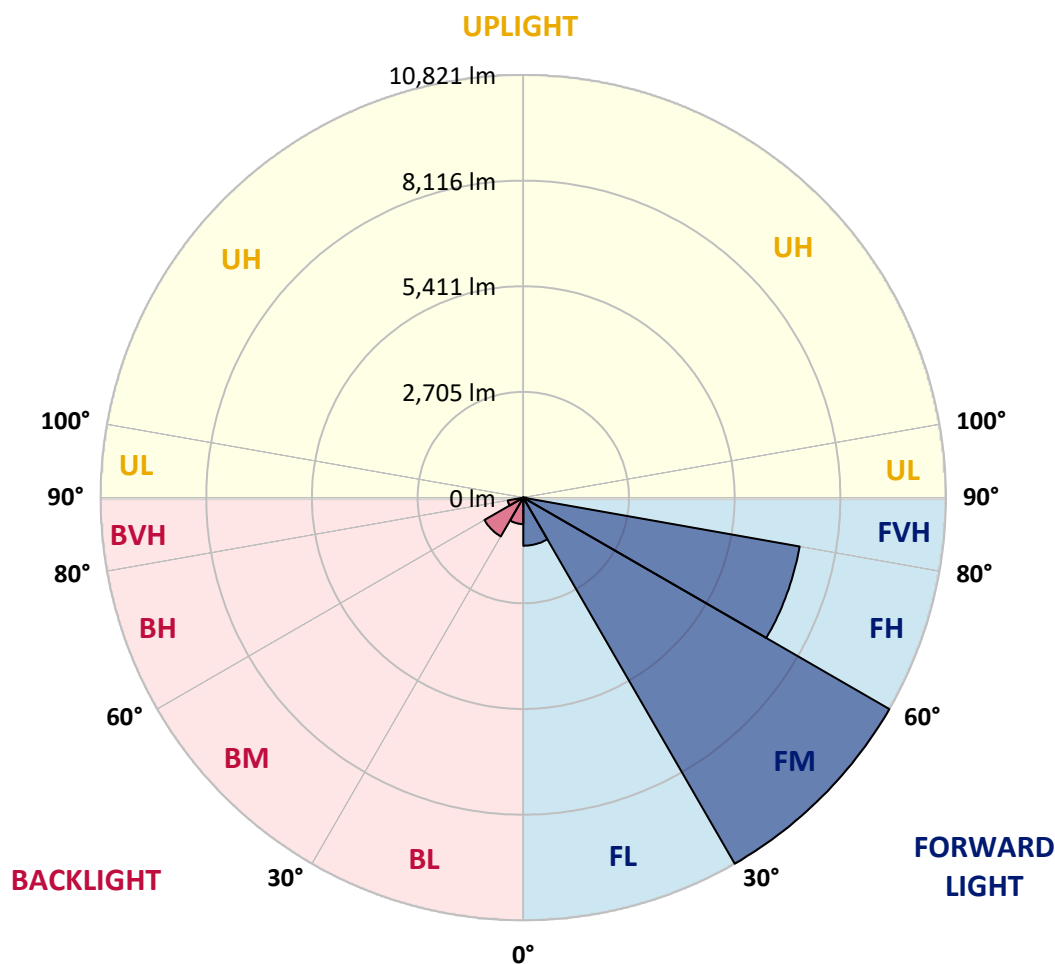
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1231.5	5.7			
FM	(30°-60°)	10821.1	50.2			
FH	(60°-80°)	7184.8	33.3			G3/7500
FVH	(80°-90°)	75.8	0.4			G1/100
BL	(0°-30°)	676.5	3.1	B2/1000		
BM	(30°-60°)	1147.4	5.3	B2/2500		
BH	(60°-80°)	403.8	1.9	B1/500		G1/500
BVH	(80°-90°)	3.1	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9
2.5°	2351.9	2360.0	2368.1	2371.4	2382.7	2394.1	2402.2	2400.6	2413.6	2420.0	2420.0
5°	2257.8	2257.8	2278.9	2298.4	2330.8	2363.3	2394.1	2400.6	2424.9	2447.6	2455.7
7.5°	2178.4	2183.2	2199.5	2235.1	2278.9	2335.7	2397.3	2411.9	2454.1	2504.4	2525.5
10°	2141.1	2144.3	2165.4	2202.7	2257.8	2335.7	2421.7	2449.2	2514.1	2593.6	2622.8
12.5°	2132.9	2137.8	2158.9	2201.1	2264.3	2358.4	2475.2	2504.4	2598.5	2700.7	2744.4
15°	2147.5	2150.8	2171.9	2217.3	2287.0	2399.0	2546.6	2587.1	2699.0	2817.4	2874.2
17.5°	2199.5	2196.2	2210.8	2248.1	2326.0	2449.2	2632.5	2681.2	2812.6	2974.8	3012.1
20°	2420.0	2399.0	2386.0	2353.5	2384.4	2520.6	2736.3	2807.7	2969.9	3135.4	3161.3
22.5°	2895.3	2848.3	2755.8	2629.3	2532.0	2617.9	2861.2	2944.0	3153.2	3315.4	3315.4
25°	3500.3	3440.3	3347.8	3072.1	2833.7	2778.5	3002.3	3106.2	3352.7	3516.5	3463.0
27.5°	4257.8	4210.7	4030.7	3709.5	3344.6	3059.1	3166.2	3261.9	3529.5	3727.4	3615.5
30°	4874.2	4851.4	4703.8	4416.7	4014.5	3597.6	3471.1	3534.4	3764.7	3993.4	3878.2
32.5°	5394.8	5394.8	5244.0	4976.3	4600.0	4230.2	3988.5	4033.9	4254.5	4518.9	4304.8
35°	5967.4	5947.9	5826.3	5571.6	5149.9	4823.9	4724.9	4786.6	4986.1	5182.3	4655.2
37.5°	6569.2	6562.7	6436.1	6189.6	5845.7	5435.4	5203.4	5219.6	5321.8	5441.9	5065.5
40°	7222.8	7232.6	7067.1	6914.6	6590.2	6170.1	5725.7	5623.5	5719.2	6058.2	5823.0
42.5°	7994.9	7972.2	7900.8	7693.2	7432.1	7180.7	6647.0	6609.7	6694.0	7057.4	6802.7
45°	8891.9	8924.3	8801.0	8685.9	8510.7	8301.5	7855.4	7790.5	7883.0	8447.4	8085.7
47.5°	9790.5	9759.7	9839.1	9818.0	9912.1	9756.4	9362.3	9229.3	9451.5	9986.7	9454.7
50°	10475.0	10509.0	10674.5	10916.2	11320.0	11407.6	11029.7	10984.3	11083.2	11427.1	10679.3
52.5°	10919.4	11032.9	11292.5	11913.7	12642.0	13208.1	12921.0	12896.6	12856.1	12948.5	11850.4
55°	11209.7	11324.9	11663.9	12578.7	13832.5	14752.2	14766.8	14663.0	14395.4	14328.9	12945.3
57.5°	11031.3	11054.0	11537.4	12760.4	14492.7	15853.6	16330.4	16226.6	15731.9	15480.5	13912.0
60°	9915.4	9962.4	10635.5	12072.6	14205.6	16213.6	17366.9	17319.9	16778.1	16494.3	14664.6
62.5°	7938.1	8074.4	8767.0	10369.5	12870.7	15607.0	17787.0	17920.0	17498.3	17107.4	14901.4
63°	7574.8	7531.0	8262.5	9873.2	12517.1	15306.9	17793.5	17962.2	17530.7	17165.8	14836.6
65°	5607.3	5738.7	6213.9	7785.7	10416.6	13910.4	17392.9	17691.3	17410.7	16907.9	14118.0
67.5°	3148.3	3141.8	3667.4	5094.7	7291.0	10911.3	15727.0	16358.0	16299.6	15172.3	11702.8
70°	1540.9	1565.2	1781.0	2640.6	4228.6	7527.8	13068.6	13749.8	13770.9	11916.9	8092.2
72.5°	697.5	708.8	862.9	1286.3	2173.5	4008.0	9005.4	9655.8	9535.8	7594.3	4468.6
75°	368.2	392.5	475.2	647.2	1047.8	1652.8	4898.5	5527.8	5276.4	3469.5	1644.7
77.5°	272.5	280.6	322.8	412.0	561.2	643.9	2113.5	2514.1	2355.2	1255.4	545.0
80°	199.5	206.0	240.1	292.0	353.6	327.6	796.4	913.2	819.1	426.6	167.1
82.5°	121.7	123.3	175.2	217.3	222.2	183.3	262.8	282.2	295.2	240.1	90.8
85°	43.8	55.1	118.4	157.3	131.4	92.5	110.3	121.7	133.0	152.5	53.5
87.5°	4.9	6.5	56.8	76.2	37.3	34.1	40.6	45.4	48.7	56.8	26.0
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°	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9	2411.9
2.5°	2426.5	2433.0	2428.2	2420.0	2418.4	2413.6	2403.8	2403.8	2403.8	2407.1	2403.8
5°	2462.2	2467.1	2455.7	2439.5	2421.7	2399.0	2374.6	2360.0	2358.4	2355.2	2347.1
7.5°	2530.3	2536.8	2510.9	2471.9	2423.3	2368.1	2316.2	2267.6	2244.9	2227.0	2227.0
10°	2629.3	2635.8	2583.9	2514.1	2416.8	2304.9	2181.6	2069.7	1982.1	1941.6	1931.8
12.5°	2747.7	2750.9	2665.0	2543.3	2382.7	2167.0	1904.2	1659.3	1489.0	1411.2	1403.0
15°	2877.5	2854.7	2741.2	2554.7	2285.4	1883.2	1429.0	1128.9	952.1	900.2	919.7
17.5°	3008.8	2966.7	2799.6	2536.8	2066.4	1429.0	960.2	770.5	715.3	700.7	700.7
20°	3132.1	3073.7	2841.8	2459.0	1686.9	984.6	712.1	666.6	656.9	647.2	648.8
22.5°	3255.4	3166.2	2879.1	2285.4	1257.1	704.0	637.5	622.9	609.9	596.9	595.3
25°	3375.4	3252.1	2893.7	1964.3	856.4	605.0	582.3	562.8	536.9	522.3	519.0
27.5°	3500.3	3355.9	2883.9	1558.8	624.5	541.8	519.0	491.5	460.7	434.7	434.7
30°	3740.4	3553.8	2849.9	1120.8	525.5	476.9	447.7	403.9	369.8	343.9	342.2
32.5°	4068.0	3811.7	2733.1	788.3	467.1	420.1	376.3	327.6	292.0	272.5	272.5
35°	4360.0	4071.3	2514.1	580.7	420.1	365.0	311.4	264.4	236.8	223.8	219.0
37.5°	4804.4	4450.8	2212.4	472.0	374.7	316.3	261.1	217.3	194.6	184.9	184.9
40°	5471.1	4914.7	1842.6	413.6	330.9	269.3	217.3	183.3	165.4	154.1	154.1
42.5°	6298.3	5482.4	1467.9	371.4	290.3	231.9	181.7	155.7	139.5	131.4	129.8
45°	7339.6	6080.9	1130.5	332.5	257.9	197.9	154.1	131.4	115.2	110.3	111.9
47.5°	8426.4	6608.1	875.9	298.5	223.8	167.1	131.4	113.5	102.2	95.7	95.7
50°	9354.2	6971.4	665.0	259.5	197.9	141.1	115.2	102.2	92.5	89.2	87.6
52.5°	10129.5	7076.8	509.3	225.5	173.6	121.7	102.2	92.5	84.3	79.5	79.5
55°	10789.6	6984.4	399.0	189.8	146.0	105.4	90.8	82.7	73.0	68.1	66.5
57.5°	11175.7	6687.6	304.9	157.3	118.4	87.6	79.5	69.7	58.4	50.3	50.3
60°	11370.3	6256.1	233.6	129.8	90.8	69.7	64.9	51.9	40.6	34.1	32.4
62.5°	11136.7	5683.5	176.8	102.2	68.1	51.9	43.8	37.3	26.0	19.5	19.5
63°	10992.4	5518.1	170.3	97.3	63.3	48.7	40.6	34.1	22.7	17.8	16.2
65°	10020.8	4796.3	139.5	77.9	50.3	34.1	27.6	24.3	16.2	8.1	6.5
67.5°	7957.6	3669.0	110.3	58.4	35.7	24.3	16.2	14.6	4.9	0.0	0.0
70°	5380.2	2369.8	86.0	42.2	24.3	14.6	8.1	6.5	1.6	0.0	0.0
72.5°	2806.1	1214.9	66.5	30.8	14.6	9.7	4.9	1.6	0.0	0.0	0.0
75°	992.7	413.6	48.7	19.5	9.7	4.9	1.6	0.0	0.0	0.0	0.0
77.5°	300.1	154.1	30.8	14.6	6.5	3.2	0.0	0.0	0.0	0.0	0.0
80°	105.4	56.8	17.8	9.7	4.9	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	51.9	27.6	11.4	8.1	4.9	1.6	0.0	0.0	0.0	0.0	0.0
85°	29.2	17.8	9.7	8.1	4.9	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	21.1	13.0	9.7	8.1	6.5	3.2	1.6	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)