

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: P454546

Luminaire Tested: **GALN-SA5C-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22897 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 269
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

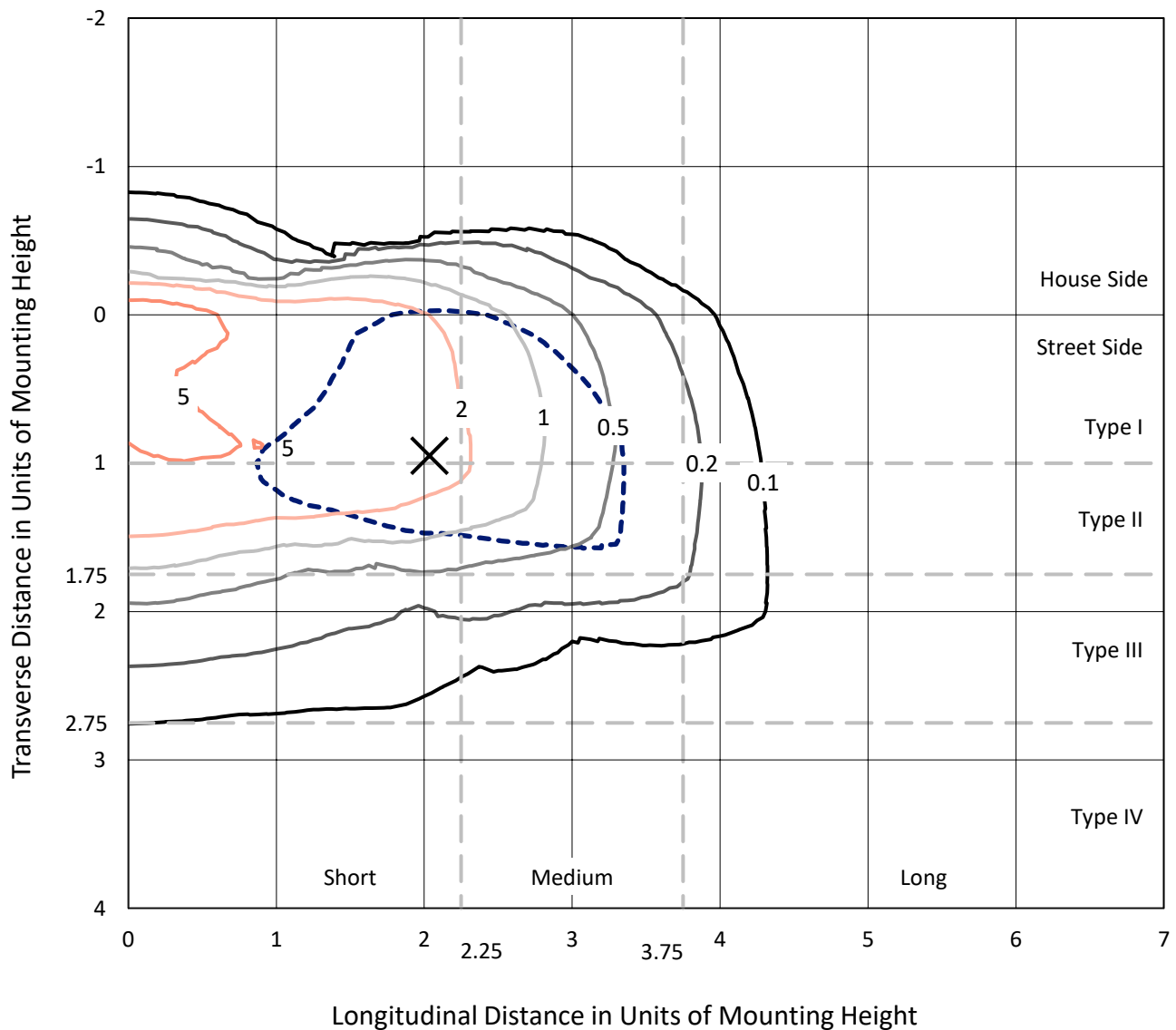


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Iso-Footcandle Lines of Horizontal Illumination

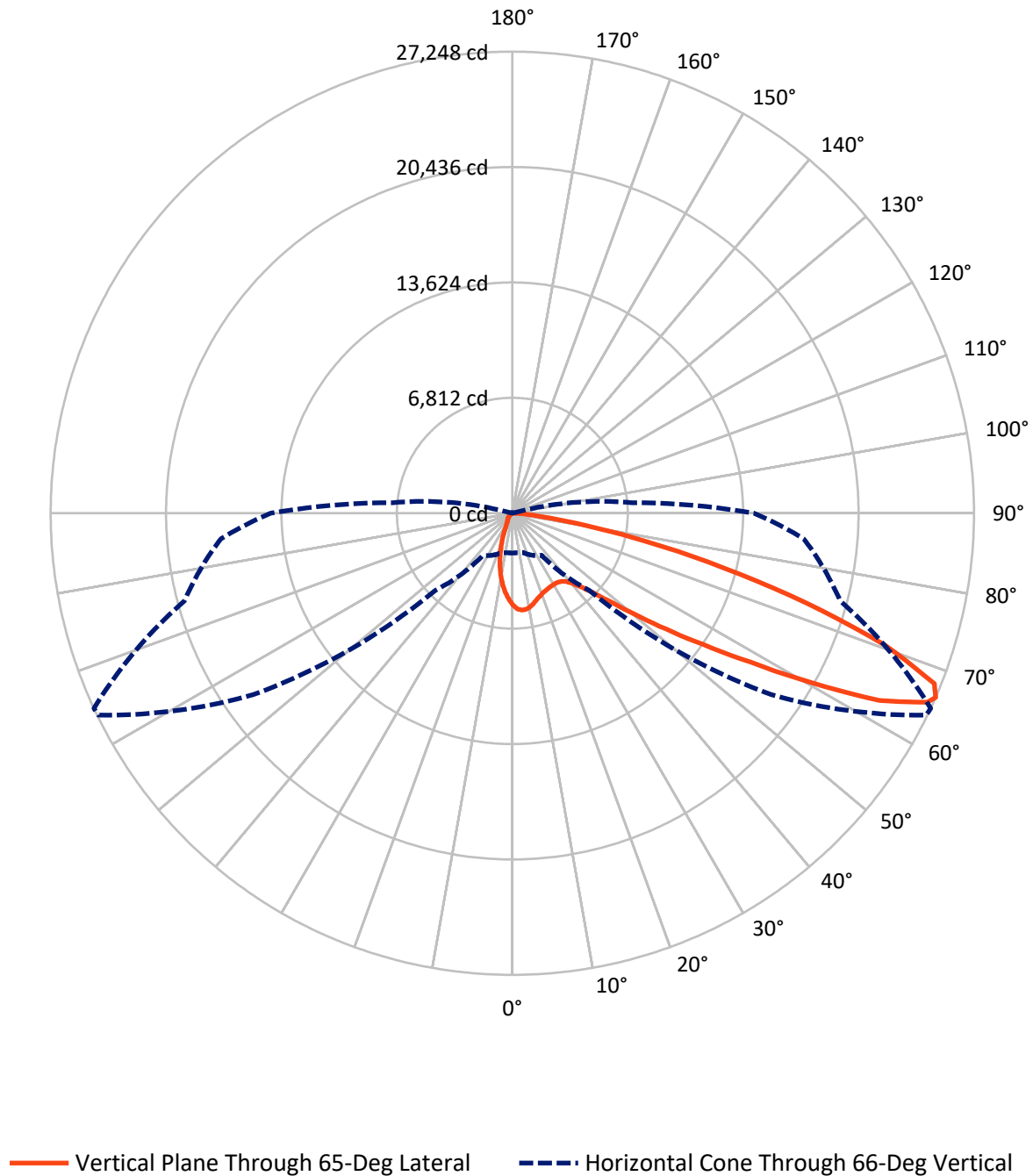
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2367.9	0.0	2367.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	20529.1	0.0	20529.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	22897.0	0.0	22897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.1	1.9
10°-20°	967.6	4.2
20°-30°	1386.0	6.1
30°-40°	2024.4	8.8
40°-50°	3394.6	14.8
50°-60°	5665.0	24.7
60°-70°	6013.3	26.3
70°-80°	2723.4	11.9
80°-90°	278.7	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°	22897.0	100.0
0°-180°	22897.0	100.0

Coefficient of Utilization



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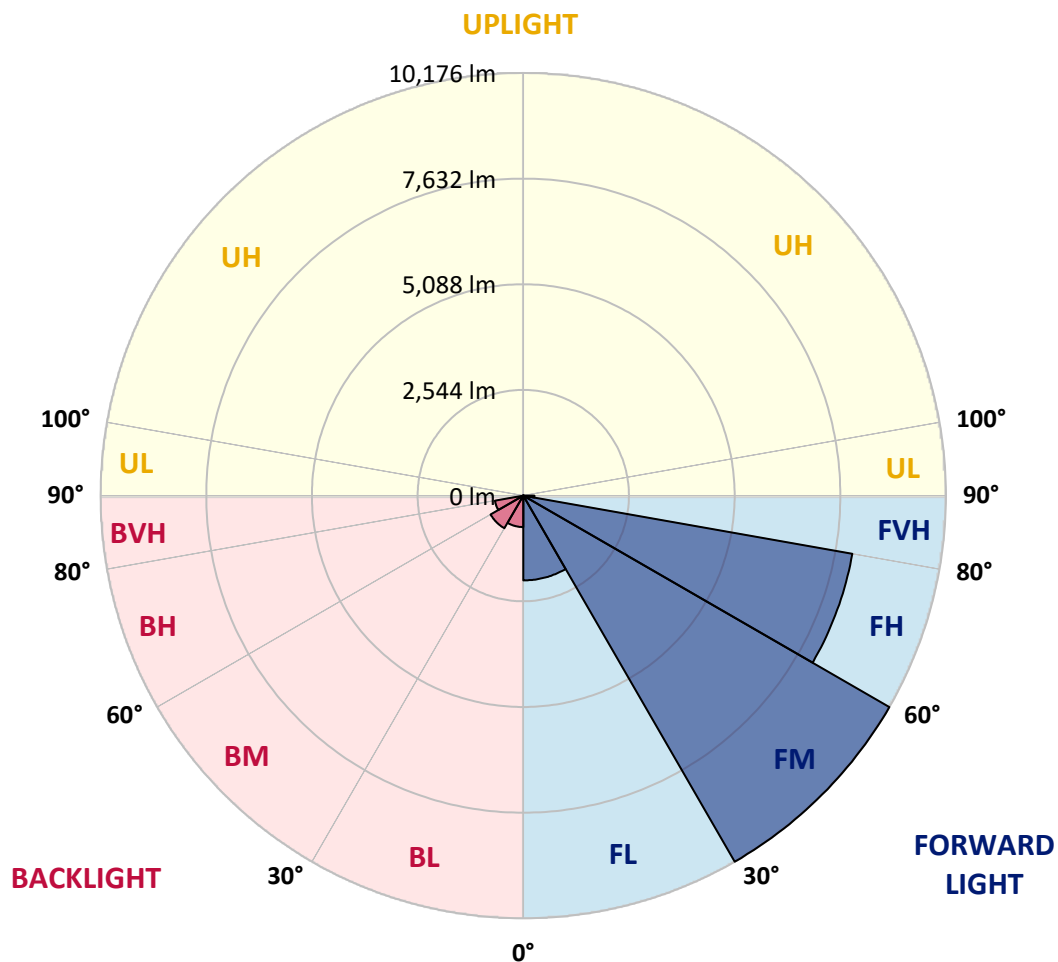
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2040.2	8.9			
FM	(30°-60°)	10175.9	44.4			
FH	(60°-80°)	8043.2	35.1			G4/12000
FVH	(80°-90°)	269.8	1.2			G3/500
BL	(0°-30°)	757.5	3.3	B2/1000		
BM	(30°-60°)	908.1	4.0	B1/1000		
BH	(60°-80°)	693.4	3.0	B2/1000		G2/1000
BVH	(80°-90°)	8.9	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5429.7	5429.7	5429.7	5429.7	5429.7	5429.7	5429.7	5429.7	5429.7	5429.7	5429.7
2.5°	5722.0	5728.2	5735.9	5746.8	5754.5	5731.3	5698.8	5661.7	5654.0	5575.1	5479.2
5°	5415.8	5425.1	5493.1	5530.2	5613.8	5689.5	5737.5	5743.7	5740.6	5666.3	5513.2
7.5°	4979.7	5006.0	5072.5	5137.4	5293.6	5437.5	5607.6	5726.6	5734.4	5714.3	5524.1
10°	4625.5	4642.6	4676.6	4804.9	4934.8	5154.4	5392.6	5616.8	5635.4	5715.8	5514.8
12.5°	4348.7	4373.5	4415.2	4514.2	4670.4	4877.6	5148.3	5449.8	5488.5	5686.4	5488.5
15°	4155.4	4167.8	4209.5	4307.0	4458.5	4650.3	4924.0	5275.1	5309.1	5647.8	5483.9
17.5°	4064.2	4078.1	4107.5	4184.8	4310.1	4487.9	4755.5	5134.3	5177.6	5623.0	5500.9
20°	4088.9	4101.3	4102.8	4143.0	4228.1	4378.1	4631.7	5002.9	5058.6	5607.6	5528.7
22.5°	4229.6	4231.2	4212.6	4194.1	4223.5	4331.7	4556.0	4919.4	4976.6	5604.5	5561.2
25°	4440.0	4444.6	4413.7	4348.7	4290.0	4345.6	4538.9	4865.3	4916.3	5596.7	5581.3
27.5°	4730.7	4729.2	4719.9	4611.6	4444.6	4407.5	4552.9	4835.9	4879.2	5575.1	5589.0
30°	5137.4	5125.1	5105.0	4982.8	4727.6	4557.5	4611.6	4817.3	4857.5	5544.2	5568.9
32.5°	5538.0	5584.4	5581.3	5465.3	5146.7	4825.0	4733.8	4842.1	4871.4	5524.1	5539.5
35°	6005.0	6003.5	6122.6	6079.2	5706.5	5166.8	4942.6	4924.0	4947.2	5538.0	5525.6
37.5°	6438.0	6478.2	6663.8	6708.7	6368.4	5649.3	5238.0	5100.3	5108.1	5632.3	5559.6
40°	6977.8	7055.1	7331.9	7481.9	7181.9	6365.3	5674.1	5423.5	5425.1	5864.3	5688.0
42.5°	7673.7	7795.9	8054.1	8304.6	8143.8	7212.8	6328.2	5935.4	5932.3	6272.6	5981.8
45°	8519.6	8604.7	8898.5	9295.9	9193.9	8395.9	7280.9	6728.8	6688.6	6942.2	6503.0
47.5°	9249.6	9365.5	9664.0	10117.1	10581.1	9840.3	8419.1	7819.0	7792.8	8007.7	7396.9
50°	9568.1	9670.2	9984.1	10619.7	11744.0	11736.3	10114.0	9410.4	9365.5	9481.5	8779.4
52.5°	9218.6	9314.5	9631.5	10423.3	12291.5	14046.8	12569.9	11406.9	11352.8	11204.3	10431.1
55°	8021.6	8100.5	8569.1	9478.4	12081.2	15587.1	15953.6	13873.6	13663.2	13086.4	12300.8
57.5°	6387.0	6346.8	6637.5	7693.8	10847.1	16103.6	19427.0	16946.4	16570.6	14713.3	13882.8
60°	4426.1	4549.8	4667.3	5363.2	8156.2	15208.2	21587.4	20809.6	20314.7	16313.9	15398.4
62.5°	3253.8	3335.8	3413.1	3734.8	5128.2	12143.0	21969.4	24777.8	24338.6	18013.5	16844.4
65°	2573.4	2579.5	2610.5	2927.5	3379.1	7896.4	20133.7	27015.6	26902.7	19649.7	17430.5
66°	2344.5	2346.0	2394.0	2734.2	3032.7	6430.3	18663.0	27185.7	27247.6	20042.5	17258.8
67.5°	2049.1	2042.9	2112.5	2457.4	2762.0	4636.4	16030.9	26496.0	26862.5	20344.1	16641.8
70°	1588.2	1580.5	1665.6	2061.5	2544.0	3093.0	10655.3	22750.4	23341.2	19727.0	14724.1
72.5°	1057.8	1064.0	1209.4	1626.9	2428.0	2723.4	6410.2	17306.8	18141.9	16290.7	11583.2
75°	617.0	627.9	793.3	1209.4	2107.9	2596.6	3628.1	12341.0	12874.5	11249.2	7215.9
77.5°	323.2	327.9	443.8	798.0	1616.1	2411.0	2417.2	7884.0	8134.5	5466.8	2856.4
80°	171.7	167.0	238.2	481.0	1111.9	2117.1	1960.9	4174.0	4339.4	1623.8	722.2
82.5°	65.0	71.1	126.8	315.5	657.3	1520.2	1688.8	1845.0	1787.7	357.2	303.1
85°	12.4	15.5	54.1	187.1	330.9	635.6	1244.9	904.7	838.2	134.5	174.8
87.5°	1.5	3.1	15.5	44.8	47.9	215.0	368.1	250.5	216.5	49.5	72.7
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°	5429.7	5429.7	5429.7	5429.7	5429.7	5429.7	5429.7	5429.7	5429.7	5429.7	5429.7
2.5°	5432.8	5391.1	5251.9	5114.2	4973.5	4846.7	4760.1	4619.4	4583.8	4532.8	4503.4
5°	5422.0	5324.6	5057.0	4764.7	4492.6	4198.7	3974.5	3758.0	3642.0	3583.2	3561.6
7.5°	5391.1	5236.4	4818.9	4361.1	3925.0	3485.8	3103.8	2813.1	2625.9	2497.6	2411.0
10°	5329.2	5115.8	4542.0	3912.6	3253.8	2673.9	2189.8	1821.8	1537.2	1447.5	1450.6
12.5°	5265.8	4981.2	4232.7	3414.6	2598.1	1866.6	1353.2	1062.4	926.3	881.5	872.2
15°	5207.0	4852.9	3929.6	2932.1	1934.7	1209.4	872.2	770.2	733.0	725.3	723.8
17.5°	5176.1	4733.8	3606.4	2380.0	1350.1	821.2	699.0	671.2	660.4	652.6	649.5
20°	5149.8	4630.2	3297.1	1863.5	923.3	672.7	626.3	600.0	581.5	573.7	569.1
22.5°	5131.3	4523.5	2977.0	1442.9	706.7	596.9	555.2	521.2	494.9	485.6	479.4
25°	5103.4	4405.9	2653.8	1054.7	595.4	530.4	482.5	442.3	408.3	391.3	388.2
27.5°	5063.2	4272.9	2299.6	781.0	532.0	471.7	412.9	363.4	329.4	310.8	312.4
30°	4998.3	4133.8	1945.5	620.1	481.0	411.4	348.0	300.0	267.5	253.6	252.1
32.5°	4920.9	3965.2	1620.7	532.0	434.6	357.2	290.7	249.0	224.2	213.4	211.9
35°	4848.2	3795.1	1289.8	477.9	386.6	307.8	244.3	208.8	190.2	180.9	182.5
37.5°	4808.0	3643.5	1005.2	434.6	348.0	264.4	210.3	179.4	162.4	154.6	153.1
40°	4834.3	3519.8	799.5	395.9	304.7	227.3	180.9	154.6	137.6	126.8	126.8
42.5°	4958.0	3465.7	644.9	358.8	264.4	196.4	157.7	133.0	114.4	103.6	105.2
45°	5335.4	3522.9	539.7	324.8	227.3	170.1	136.1	109.8	92.8	85.1	83.5
47.5°	5961.7	3737.9	467.0	289.2	194.9	145.4	114.4	91.2	74.2	68.0	66.5
50°	7056.6	4181.7	412.9	253.6	165.5	123.7	94.3	72.7	58.8	52.6	52.6
52.5°	8562.9	5149.8	374.3	213.4	139.2	105.2	77.3	58.8	46.4	41.8	40.2
55°	10137.2	6170.5	354.1	179.4	116.0	86.6	61.9	46.4	35.6	30.9	29.4
57.5°	11651.2	6971.6	330.9	145.4	92.8	66.5	47.9	35.6	24.7	21.7	20.1
60°	13103.4	7619.6	281.5	116.0	72.7	47.9	35.6	24.7	17.0	13.9	13.9
62.5°	14402.5	7996.9	221.1	92.8	55.7	34.0	23.2	18.6	12.4	9.3	9.3
65°	14554.0	7506.7	167.0	71.1	40.2	21.7	13.9	13.9	9.3	6.2	6.2
66°	14249.4	7090.7	146.9	65.0	35.6	18.6	12.4	10.8	7.7	4.6	4.6
67.5°	13568.9	6380.8	126.8	55.7	29.4	13.9	9.3	9.3	6.2	3.1	3.1
70°	11723.9	5211.7	100.5	41.8	21.7	10.8	6.2	6.2	4.6	3.1	3.1
72.5°	8935.6	3891.0	82.0	30.9	15.5	7.7	4.6	4.6	4.6	3.1	3.1
75°	5389.5	2095.5	63.4	23.2	13.9	6.2	3.1	4.6	6.2	4.6	3.1
77.5°	1985.7	712.9	49.5	18.6	10.8	6.2	3.1	3.1	6.2	4.6	4.6
80°	487.1	185.6	35.6	15.5	10.8	6.2	3.1	3.1	6.2	6.2	6.2
82.5°	225.8	78.9	24.7	13.9	10.8	6.2	3.1	3.1	4.6	6.2	6.2
85°	129.9	37.1	20.1	15.5	10.8	6.2	3.1	3.1	4.6	6.2	6.2
87.5°	52.6	18.6	18.6	15.5	12.4	7.7	3.1	3.1	3.1	4.6	4.6
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)