

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: P455474

Luminaire Tested: **GALN-SA6C-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455474
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-SA6C-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 27113 lumens
Efficiency: N/A
Efficacy: 84.5 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): 321
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

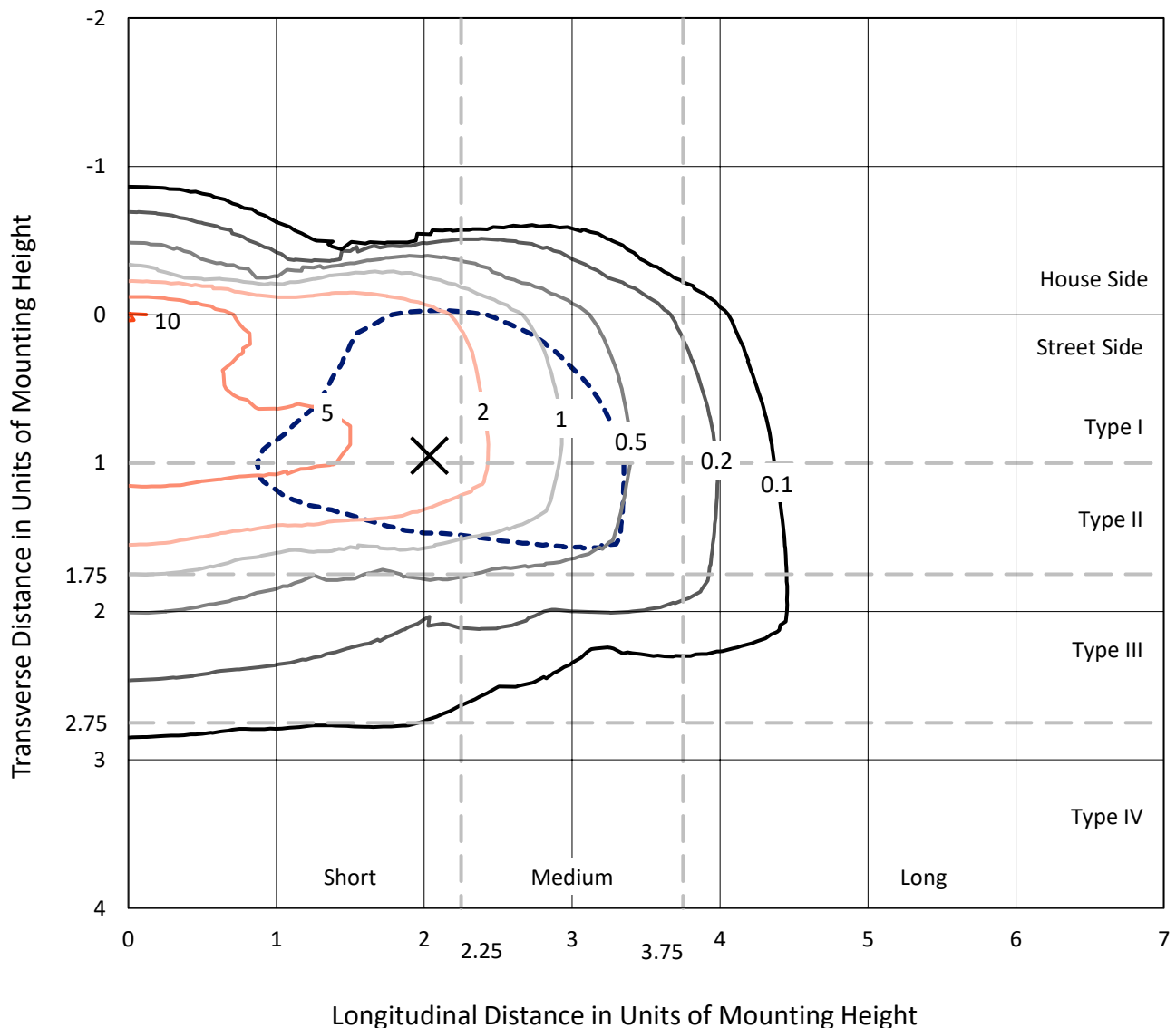


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Iso-Footcandle Lines of Horizontal Illumination

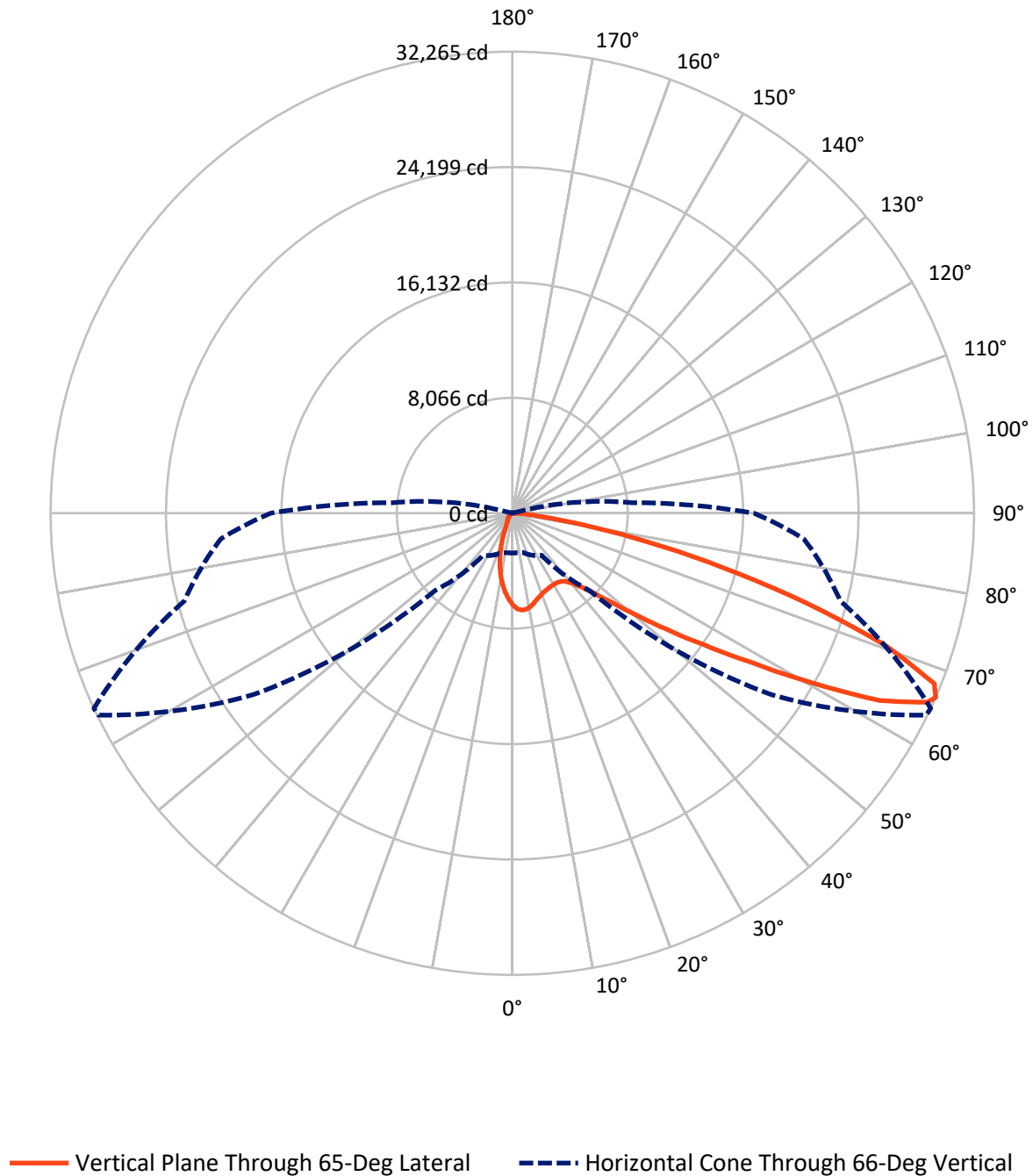
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	2803.9	0.0	2803.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	24309.1	0.0	24309.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	27113.0	0.0	27113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.8	1.9
10°-20°	1145.7	4.2
20°-30°	1641.2	6.1
30°-40°	2397.2	8.8
40°-50°	4019.6	14.8
50°-60°	6708.1	24.7
60°-70°	7120.5	26.3
70°-80°	3224.8	11.9
80°-90°	330.0	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°	27113.0	100.0
0°-180°	27113.0	100.0

Coefficient of Utilization



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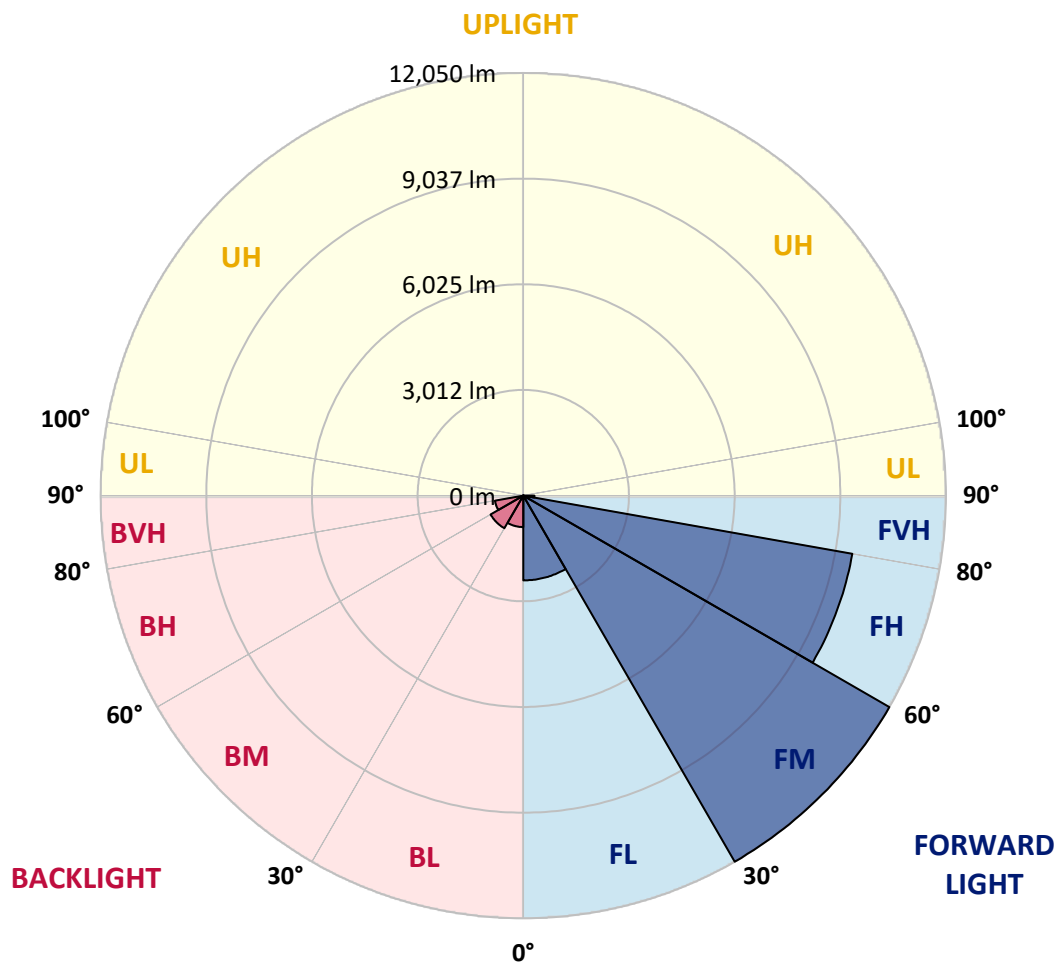
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2415.9	8.9			
FM	(30°-60°)	12049.6	44.4			
FH	(60°-80°)	9524.2	35.1			G4/12000
FVH	(80°-90°)	319.5	1.2			G3/500
BL	(0°-30°)	896.9	3.3	B2/1000		
BM	(30°-60°)	1075.3	4.0	B2/2500		
BH	(60°-80°)	821.1	3.0	B2/1000		G2/1000
BVH	(80°-90°)	10.5	0.0			G1/100
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°	6429.5	6429.5	6429.5	6429.5	6429.5	6429.5	6429.5	6429.5	6429.5	6429.5	6429.5
2.5°	6775.6	6782.9	6792.1	6804.9	6814.1	6786.6	6748.1	6704.2	6695.0	6601.6	6488.1
5°	6413.0	6424.0	6504.6	6548.5	6647.4	6737.1	6793.9	6801.2	6797.6	6709.7	6528.4
7.5°	5896.6	5927.7	6006.5	6083.4	6268.3	6438.6	6640.1	6781.1	6790.2	6766.4	6541.2
10°	5477.2	5497.4	5537.7	5689.7	5843.5	6103.5	6385.5	6651.1	6673.0	6768.3	6530.2
12.5°	5149.5	5178.8	5228.2	5345.4	5530.4	5775.7	6096.2	6453.3	6499.1	6733.5	6499.1
15°	4920.5	4935.2	4984.6	5100.0	5279.5	5506.5	5830.7	6246.4	6286.7	6687.7	6493.6
17.5°	4812.5	4829.0	4863.8	4955.3	5103.7	5314.3	5631.1	6079.7	6131.0	6658.4	6513.7
20°	4841.8	4856.5	4858.3	4905.9	5006.6	5184.2	5484.6	5924.1	5990.0	6640.1	6546.7
22.5°	5008.4	5010.3	4988.3	4966.3	5001.1	5129.3	5394.8	5825.2	5892.9	6636.4	6585.1
25°	5257.5	5263.0	5226.4	5149.5	5079.9	5145.8	5374.7	5761.1	5821.5	6627.3	6609.0
27.5°	5601.8	5599.9	5589.0	5460.8	5263.0	5219.0	5391.2	5726.3	5777.6	6601.6	6618.1
30°	6083.4	6068.7	6044.9	5900.3	5598.1	5396.7	5460.8	5704.3	5751.9	6565.0	6594.3
32.5°	6557.7	6612.6	6609.0	6471.6	6094.4	5713.5	5605.4	5733.6	5768.4	6541.2	6559.5
35°	7110.7	7108.9	7249.9	7198.6	6757.3	6118.2	5852.7	5830.7	5858.1	6557.7	6543.0
37.5°	7623.5	7671.1	7890.8	7943.9	7541.1	6689.5	6202.4	6039.4	6048.6	6669.4	6583.3
40°	8262.6	8354.1	8681.9	8859.6	8504.3	7537.4	6718.8	6422.2	6424.0	6944.1	6735.3
42.5°	9086.6	9231.3	9537.1	9833.8	9643.3	8540.9	7493.4	7028.3	7024.6	7427.5	7083.2
45°	10088.3	10189.0	10537.0	11007.6	10886.7	9941.8	8621.5	7967.7	7920.1	8220.4	7700.4
47.5°	10952.7	11090.0	11443.4	11980.0	12529.4	11652.2	9969.3	9258.8	9227.6	9482.2	8758.8
50°	11329.9	11450.8	11822.5	12575.1	13906.5	13897.3	11976.3	11143.1	11090.0	11227.3	10396.0
52.5°	10916.0	11029.6	11405.0	12342.6	14554.7	16633.2	14884.3	13507.2	13443.2	13267.4	12351.7
55°	9498.7	9592.0	10146.9	11223.7	14305.7	18457.1	18891.1	16428.1	16179.0	15496.0	14565.7
57.5°	7563.0	7515.4	7859.7	9110.4	12844.3	19068.7	23004.1	20066.8	19621.8	17422.4	16439.1
60°	5241.0	5387.5	5526.7	6350.7	9658.0	18008.4	25562.3	24641.2	24055.2	19317.8	18233.7
62.5°	3852.9	3950.0	4041.6	4422.5	6072.4	14378.9	26014.6	29340.2	28820.1	21330.3	19945.9
65°	3047.2	3054.5	3091.1	3466.5	4001.3	9350.3	23840.9	31990.0	31856.3	23267.8	20639.9
66°	2776.2	2778.0	2834.8	3237.6	3591.1	7614.3	22099.4	32191.4	32264.7	23732.9	20436.7
67.5°	2426.4	2419.1	2501.5	2909.8	3270.6	5490.1	18982.7	31374.7	31808.7	24090.0	19706.0
70°	1880.7	1871.5	1972.2	2441.0	3012.4	3662.5	12617.3	26939.4	27638.9	23359.3	17435.3
72.5°	1252.6	1259.9	1432.0	1926.5	2875.1	3224.8	7590.5	20493.4	21482.3	19290.3	13716.0
75°	730.7	743.5	939.4	1432.0	2496.0	3074.7	4296.1	14613.3	15245.1	13320.5	8544.6
77.5°	382.7	388.2	525.6	944.9	1913.6	2854.9	2862.2	9335.7	9632.3	6473.4	3382.3
80°	203.3	197.8	282.0	569.5	1316.7	2507.0	2322.0	4942.5	5138.5	1922.8	855.2
82.5°	76.9	84.2	150.2	373.6	778.3	1800.1	1999.7	2184.7	2116.9	423.0	358.9
85°	14.6	18.3	64.1	221.6	391.9	752.6	1474.2	1071.3	992.5	159.3	206.9
87.5°	1.8	3.7	18.3	53.1	56.8	254.5	435.8	296.7	256.4	58.6	86.1
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°	6429.5	6429.5	6429.5	6429.5	6429.5	6429.5	6429.5	6429.5	6429.5	6429.5	6429.5
2.5°	6433.2	6383.7	6218.9	6055.9	5889.3	5739.1	5636.6	5469.9	5427.8	5367.4	5332.6
5°	6420.3	6305.0	5988.2	5642.1	5319.8	4971.8	4706.3	4449.9	4312.6	4243.0	4217.4
7.5°	6383.7	6200.6	5706.2	5164.1	4647.7	4127.6	3675.3	3331.0	3109.4	2957.5	2854.9
10°	6310.5	6057.8	5378.4	4633.0	3852.9	3166.2	2593.0	2157.2	1820.3	1714.0	1717.7
12.5°	6235.4	5898.4	5012.1	4043.4	3076.5	2210.3	1602.3	1258.1	1096.9	1043.8	1032.8
15°	6165.8	5746.4	4653.2	3472.0	2290.9	1432.0	1032.8	912.0	868.0	858.9	857.0
17.5°	6129.2	5605.4	4270.5	2818.3	1598.7	972.4	827.7	794.8	781.9	772.8	769.1
20°	6098.0	5482.7	3904.2	2206.6	1093.3	796.6	741.7	710.5	688.5	679.4	673.9
22.5°	6076.1	5356.4	3525.1	1708.5	836.9	706.9	657.4	617.1	586.0	575.0	567.7
25°	6043.1	5217.2	3142.4	1248.9	705.0	628.1	571.3	523.7	483.4	463.3	459.6
27.5°	5995.5	5059.7	2723.1	924.8	629.9	558.5	488.9	430.3	390.1	368.1	369.9
30°	5918.6	4894.9	2303.7	734.3	569.5	487.1	412.0	355.3	316.8	300.3	298.5
32.5°	5827.0	4695.3	1919.1	629.9	514.6	423.0	344.3	294.8	265.5	252.7	250.9
35°	5740.9	4493.9	1527.3	565.9	457.8	364.4	289.3	247.2	225.2	214.3	216.1
37.5°	5693.3	4314.4	1190.3	514.6	412.0	313.1	249.0	212.4	192.3	183.1	181.3
40°	5724.5	4167.9	946.8	468.8	360.8	269.2	214.3	183.1	163.0	150.2	150.2
42.5°	5871.0	4103.8	763.6	424.8	313.1	232.6	186.8	157.5	135.5	122.7	124.5
45°	6317.8	4171.6	639.1	384.6	269.2	201.4	161.1	130.0	109.9	100.7	98.9
47.5°	7059.4	4426.1	553.0	342.4	230.7	172.1	135.5	108.0	87.9	80.6	78.7
50°	8356.0	4951.7	488.9	300.3	195.9	146.5	111.7	86.1	69.6	62.3	62.3
52.5°	10139.6	6098.0	443.2	252.7	164.8	124.5	91.6	69.6	54.9	49.4	47.6
55°	12003.8	7306.7	419.4	212.4	137.3	102.5	73.2	54.9	42.1	36.6	34.8
57.5°	13796.6	8255.2	391.9	172.1	109.9	78.7	56.8	42.1	29.3	25.6	23.8
60°	15516.1	9022.5	333.3	137.3	86.1	56.8	42.1	29.3	20.1	16.5	16.5
62.5°	17054.4	9469.4	261.9	109.9	65.9	40.3	27.5	22.0	14.6	11.0	11.0
65°	17233.8	8888.9	197.8	84.2	47.6	25.6	16.5	16.5	11.0	7.3	7.3
66°	16873.1	8396.2	174.0	76.9	42.1	22.0	14.6	12.8	9.2	5.5	5.5
67.5°	16067.3	7555.7	150.2	65.9	34.8	16.5	11.0	11.0	7.3	3.7	3.7
70°	13882.6	6171.3	119.0	49.4	25.6	12.8	7.3	7.3	5.5	3.7	3.7
72.5°	10580.9	4607.4	97.1	36.6	18.3	9.2	5.5	5.5	5.5	3.7	3.7
75°	6381.9	2481.3	75.1	27.5	16.5	7.3	3.7	5.5	7.3	5.5	3.7
77.5°	2351.3	844.2	58.6	22.0	12.8	7.3	3.7	3.7	7.3	5.5	5.5
80°	576.8	219.7	42.1	18.3	12.8	7.3	3.7	3.7	7.3	7.3	7.3
82.5°	267.4	93.4	29.3	16.5	12.8	7.3	3.7	3.7	5.5	7.3	7.3
85°	153.8	43.9	23.8	18.3	12.8	7.3	3.7	3.7	5.5	7.3	7.3
87.5°	62.3	22.0	22.0	18.3	14.6	9.2	3.7	3.7	3.7	5.5	5.5
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)