

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: P458273

Luminaire Tested: **GALN-SA9C-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458273
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-SA9C-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 37184 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 481
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



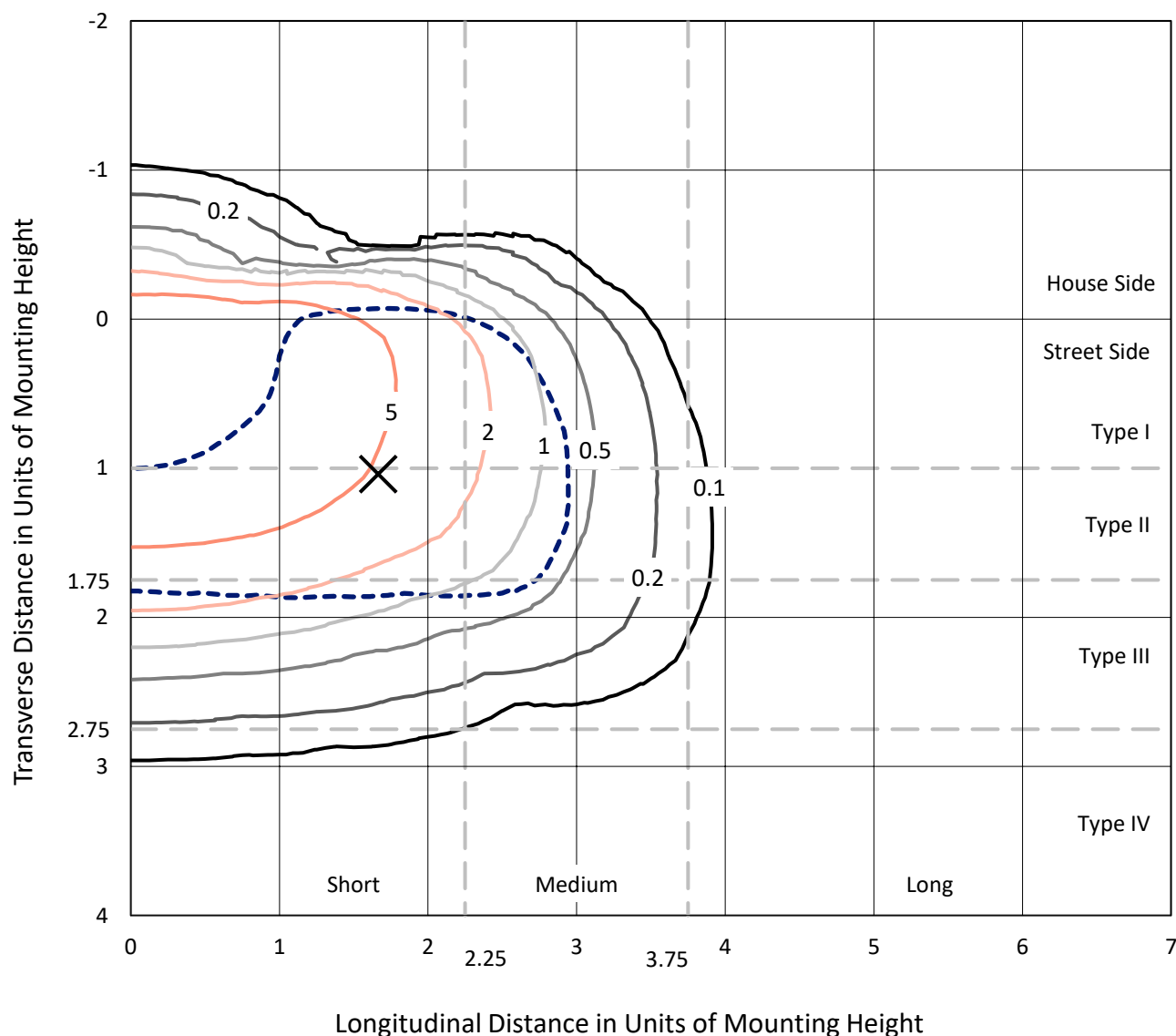
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

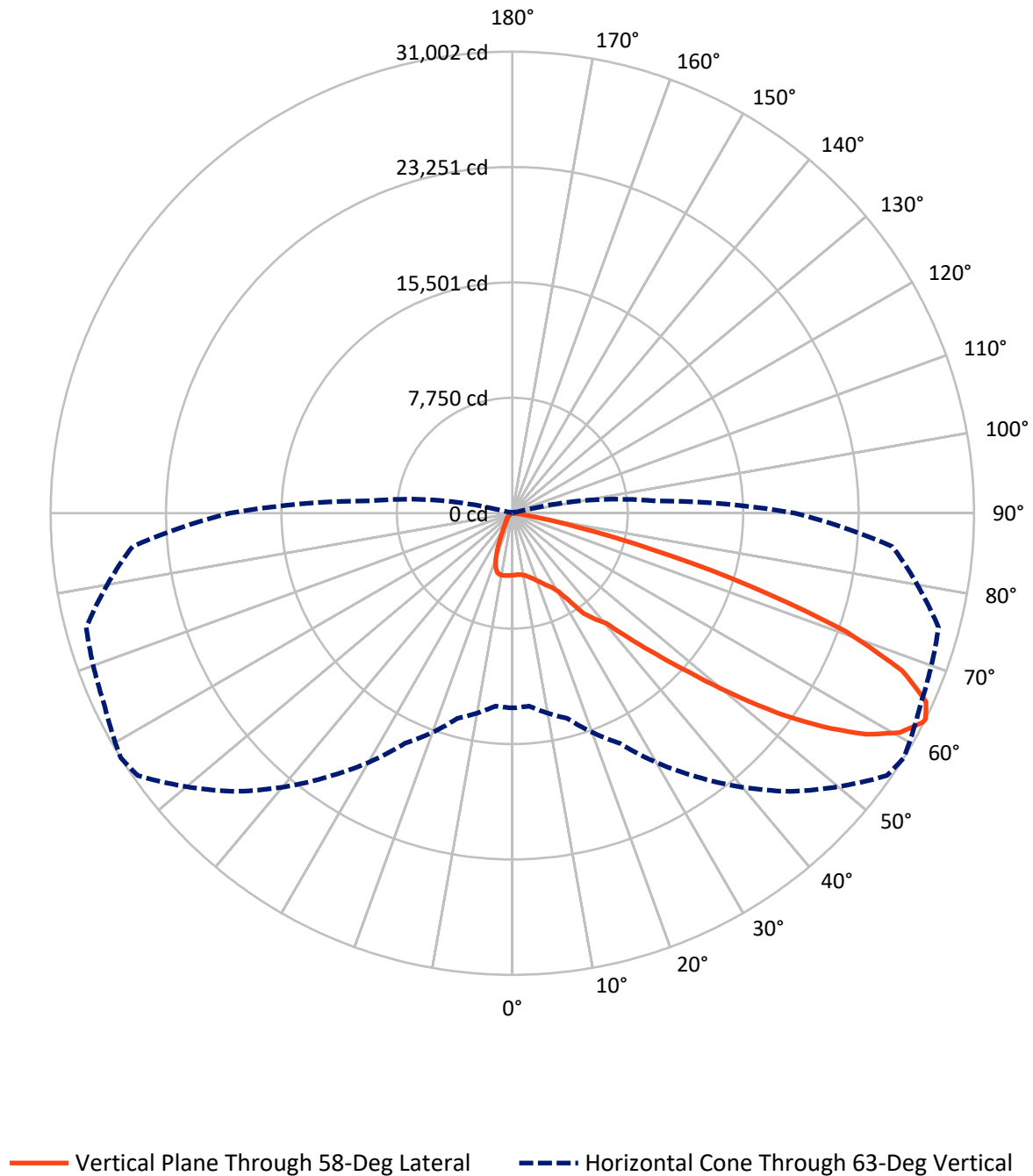


Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3850.2	0.0	3850.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	33333.8	0.0	33333.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	37184.0	0.0	37184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.7	1.0
10°-20°	1061.4	2.9
20°-30°	1842.1	5.0
30°-40°	3385.1	9.1
40°-50°	6372.4	17.1
50°-60°	10899.5	29.3
60°-70°	10436.3	28.1
70°-80°	2661.3	7.2
80°-90°	136.1	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°	37184.0	100.0
0°-180°	37184.0	100.0

Coefficient of Utilization



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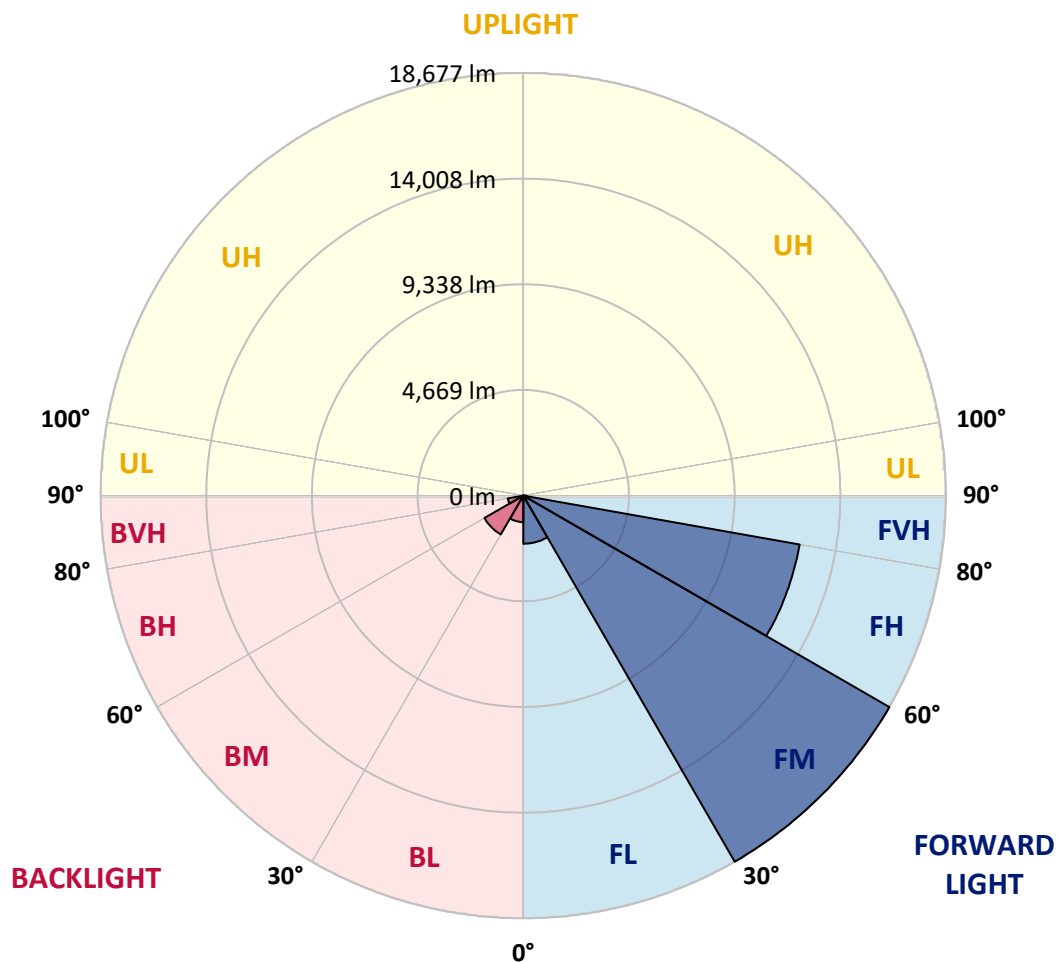
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2125.6	5.7			
FM	(30°-60°)	18676.8	50.2			
FH	(60°-80°)	12400.7	33.3			G5
FVH	(80°-90°)	130.8	0.4			G2/225
BL	(0°-30°)	1167.6	3.1	B3/2500		
BM	(30°-60°)	1980.3	5.3	B2/2500		
BH	(60°-80°)	696.9	1.9	B2/1000		G2/1000
BVH	(80°-90°)	5.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4162.9	4162.9	4162.9	4162.9	4162.9	4162.9	4162.9	4162.9	4162.9	4162.9	4162.9
2.5°	4059.3	4073.3	4087.3	4092.9	4112.5	4132.1	4146.1	4143.3	4165.7	4176.9	4176.9
5°	3896.9	3896.9	3933.3	3966.9	4022.9	4078.9	4132.1	4143.3	4185.3	4224.5	4238.5
7.5°	3759.8	3768.2	3796.2	3857.7	3933.3	4031.3	4137.7	4162.9	4235.7	4322.5	4358.9
10°	3695.4	3701.0	3737.4	3801.8	3896.9	4031.3	4179.7	4227.3	4339.3	4476.4	4526.8
12.5°	3681.4	3689.8	3726.2	3799.0	3908.1	4070.5	4272.1	4322.5	4484.8	4661.2	4736.8
15°	3706.6	3712.2	3748.6	3826.9	3947.3	4140.5	4395.3	4465.2	4658.4	4862.8	4960.8
17.5°	3796.2	3790.6	3815.8	3880.1	4014.5	4227.3	4543.6	4627.6	4854.4	5134.3	5198.7
20°	4176.9	4140.5	4118.1	4062.1	4115.3	4350.5	4722.8	4846.0	5125.9	5411.5	5456.3
22.5°	4997.2	4916.0	4756.4	4538.0	4370.1	4518.4	4938.4	5081.1	5442.3	5722.2	5722.2
25°	6041.4	5937.8	5778.2	5302.3	4890.8	4795.6	5181.9	5361.1	5786.6	6069.4	5977.0
27.5°	7348.8	7267.6	6956.8	6402.5	5772.6	5279.9	5464.7	5629.8	6091.8	6433.3	6240.1
30°	8412.6	8373.4	8118.6	7623.1	6928.8	6209.3	5991.0	6100.2	6497.7	6892.4	6693.7
32.5°	9311.2	9311.2	9050.9	8588.9	7939.5	7301.2	6884.0	6962.4	7343.2	7799.5	7429.9
35°	10299.4	10265.9	10055.9	9616.4	8888.5	8325.8	8155.0	8261.4	8605.7	8944.5	8034.6
37.5°	11338.1	11326.9	11108.5	10683.0	10089.5	9381.2	8980.9	9008.9	9185.2	9392.4	8742.9
40°	12466.3	12483.1	12197.5	11934.4	11374.5	10649.4	9882.3	9706.0	9871.1	10456.2	10050.3
42.5°	13798.9	13759.7	13636.5	13278.1	12827.4	12393.5	11472.5	11408.1	11553.6	12180.7	11741.2
45°	15347.0	15403.0	15190.2	14991.5	14689.1	14328.0	13558.1	13446.1	13605.7	14579.9	13955.6
47.5°	16897.9	16844.7	16981.9	16945.5	17107.9	16839.1	16158.9	15929.3	16312.8	17236.7	16318.4
50°	18079.3	18138.1	18423.7	18840.8	19537.9	19689.1	19036.8	18958.4	19129.1	19722.6	18432.1
52.5°	18846.4	19042.4	19490.3	20562.5	21819.5	22796.5	22301.0	22259.0	22189.0	22348.6	20453.3
55°	19347.5	19546.3	20131.4	21710.3	23874.3	25461.7	25486.9	25307.7	24845.8	24731.0	22343.0
57.5°	19039.6	19078.8	19913.0	22023.9	25013.7	27362.6	28185.6	28006.4	27152.6	26718.7	24011.5
60°	17113.5	17194.7	18356.5	20836.9	24518.2	27984.0	29974.5	29893.3	28958.3	28468.4	25310.5
62.5°	13700.9	13936.0	15131.4	17897.4	22214.2	26937.0	30699.6	30929.1	30201.3	29526.6	25719.2
63°	13073.8	12998.2	14260.8	17040.7	21603.9	26419.1	30710.8	31001.9	30257.3	29627.4	25607.2
65°	9678.0	9904.7	10725.0	13437.7	17978.5	24008.7	30019.3	30534.4	30050.1	29182.2	24367.1
67.5°	5433.9	5422.7	6329.7	8793.3	12583.9	18832.4	27144.2	28233.2	28132.4	26186.8	20198.6
70°	2659.5	2701.5	3073.9	4557.6	7298.4	12992.6	22555.8	23731.6	23768.0	20568.1	13966.8
72.5°	1203.8	1223.4	1489.3	2220.0	3751.4	6917.6	15543.0	16665.6	16458.4	13107.4	7712.7
75°	635.5	677.5	820.3	1117.0	1808.5	2852.7	8454.6	9540.8	9106.9	5988.2	2838.7
77.5°	470.3	484.3	557.1	711.1	968.6	1111.4	3647.8	4339.3	4064.9	2166.8	940.6
80°	344.3	355.5	414.3	503.9	610.3	565.5	1374.6	1576.1	1413.8	736.3	288.4
82.5°	210.0	212.8	302.3	375.1	383.5	316.3	453.5	487.1	509.5	414.3	156.8
85°	75.6	95.2	204.4	271.6	226.8	159.6	190.4	210.0	229.6	263.2	92.4
87.5°	8.4	11.2	98.0	131.6	64.4	58.8	70.0	78.4	84.0	98.0	44.8
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°	4162.9	4162.9	4162.9	4162.9	4162.9	4162.9	4162.9	4162.9	4162.9	4162.9	4162.9
2.5°	4188.1	4199.3	4190.9	4176.9	4174.1	4165.7	4148.9	4148.9	4148.9	4154.5	4148.9
5°	4249.7	4258.1	4238.5	4210.5	4179.7	4140.5	4098.5	4073.3	4070.5	4064.9	4050.9
7.5°	4367.3	4378.5	4333.7	4266.5	4182.5	4087.3	3997.7	3913.7	3874.5	3843.7	3843.7
10°	4538.0	4549.2	4459.6	4339.3	4171.3	3978.1	3765.4	3572.2	3421.0	3351.0	3334.2
12.5°	4742.4	4748.0	4599.6	4389.7	4112.5	3740.2	3286.6	2863.9	2570.0	2435.6	2421.6
15°	4966.4	4927.2	4731.2	4409.3	3944.5	3250.2	2466.4	1948.5	1643.3	1553.7	1587.3
17.5°	5193.1	5120.3	4832.0	4378.5	3566.6	2466.4	1657.3	1329.8	1234.6	1209.4	1209.4
20°	5405.9	5305.1	4904.8	4244.1	2911.5	1699.3	1229.0	1150.6	1133.8	1117.0	1119.8
22.5°	5618.6	5464.7	4969.2	3944.5	2169.6	1215.0	1100.2	1075.0	1052.6	1030.2	1027.4
25°	5825.8	5613.0	4994.4	3390.2	1478.1	1044.2	1005.0	971.4	926.6	901.4	895.8
27.5°	6041.4	5792.2	4977.6	2690.3	1077.8	935.0	895.8	848.3	795.1	750.3	750.3
30°	6455.7	6133.8	4918.8	1934.5	907.0	823.1	772.7	697.1	638.3	593.5	590.7
32.5°	7021.2	6578.9	4717.2	1360.6	806.3	725.1	649.5	565.5	503.9	470.3	470.3
35°	7525.1	7026.8	4339.3	1002.2	725.1	629.9	537.5	456.3	408.7	386.3	377.9
37.5°	8292.2	7681.9	3818.6	814.7	646.7	545.9	450.7	375.1	335.9	319.1	319.1
40°	9442.8	8482.6	3180.3	713.9	571.1	464.7	375.1	316.3	285.6	266.0	266.0
42.5°	10870.6	9462.4	2533.6	641.1	501.1	400.3	313.5	268.8	240.8	226.8	224.0
45°	12667.8	10495.4	1951.3	573.9	445.1	341.5	266.0	226.8	198.8	190.4	193.2
47.5°	14543.5	11405.3	1511.7	515.1	386.3	288.4	226.8	196.0	176.4	165.2	165.2
50°	16144.9	12032.4	1147.8	447.9	341.5	243.6	198.8	176.4	159.6	154.0	151.2
52.5°	17483.0	12214.3	879.1	389.1	299.5	210.0	176.4	159.6	145.6	137.2	137.2
55°	18622.4	12054.8	688.7	327.5	252.0	182.0	156.8	142.8	126.0	117.6	114.8
57.5°	19288.7	11542.4	526.3	271.6	204.4	151.2	137.2	120.4	100.8	86.8	86.8
60°	19624.7	10797.8	403.1	224.0	156.8	120.4	112.0	89.6	70.0	58.8	56.0
62.5°	19221.5	9809.5	305.1	176.4	117.6	89.6	75.6	64.4	44.8	33.6	33.6
63°	18972.4	9524.0	294.0	168.0	109.2	84.0	70.0	58.8	39.2	30.8	28.0
65°	17295.5	8278.2	240.8	134.4	86.8	58.8	47.6	42.0	28.0	14.0	11.2
67.5°	13734.5	6332.5	190.4	100.8	61.6	42.0	28.0	25.2	8.4	0.0	0.0
70°	9286.0	4090.1	148.4	72.8	42.0	25.2	14.0	11.2	2.8	0.0	0.0
72.5°	4843.2	2096.8	114.8	53.2	25.2	16.8	8.4	2.8	0.0	0.0	0.0
75°	1713.3	713.9	84.0	33.6	16.8	8.4	2.8	0.0	0.0	0.0	0.0
77.5°	517.9	266.0	53.2	25.2	11.2	5.6	0.0	0.0	0.0	0.0	0.0
80°	182.0	98.0	30.8	16.8	8.4	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	89.6	47.6	19.6	14.0	8.4	2.8	0.0	0.0	0.0	0.0	0.0
85°	50.4	30.8	16.8	14.0	8.4	5.6	0.0	0.0	0.0	0.0	0.0
87.5°	36.4	22.4	16.8	14.0	11.2	5.6	2.8	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)