

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: P458269

Luminaire Tested: **GALN-SA9C-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37861 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - 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



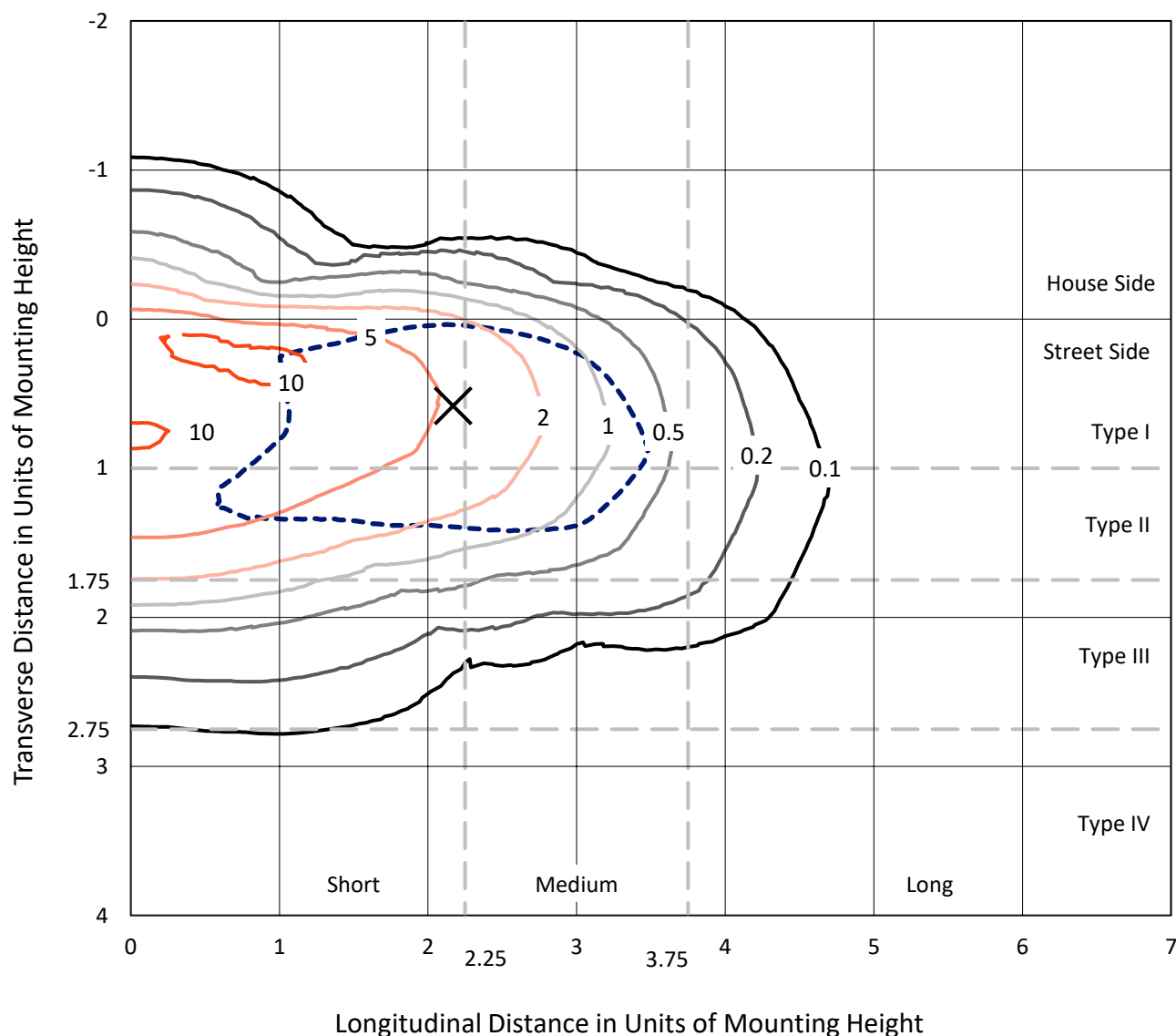
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



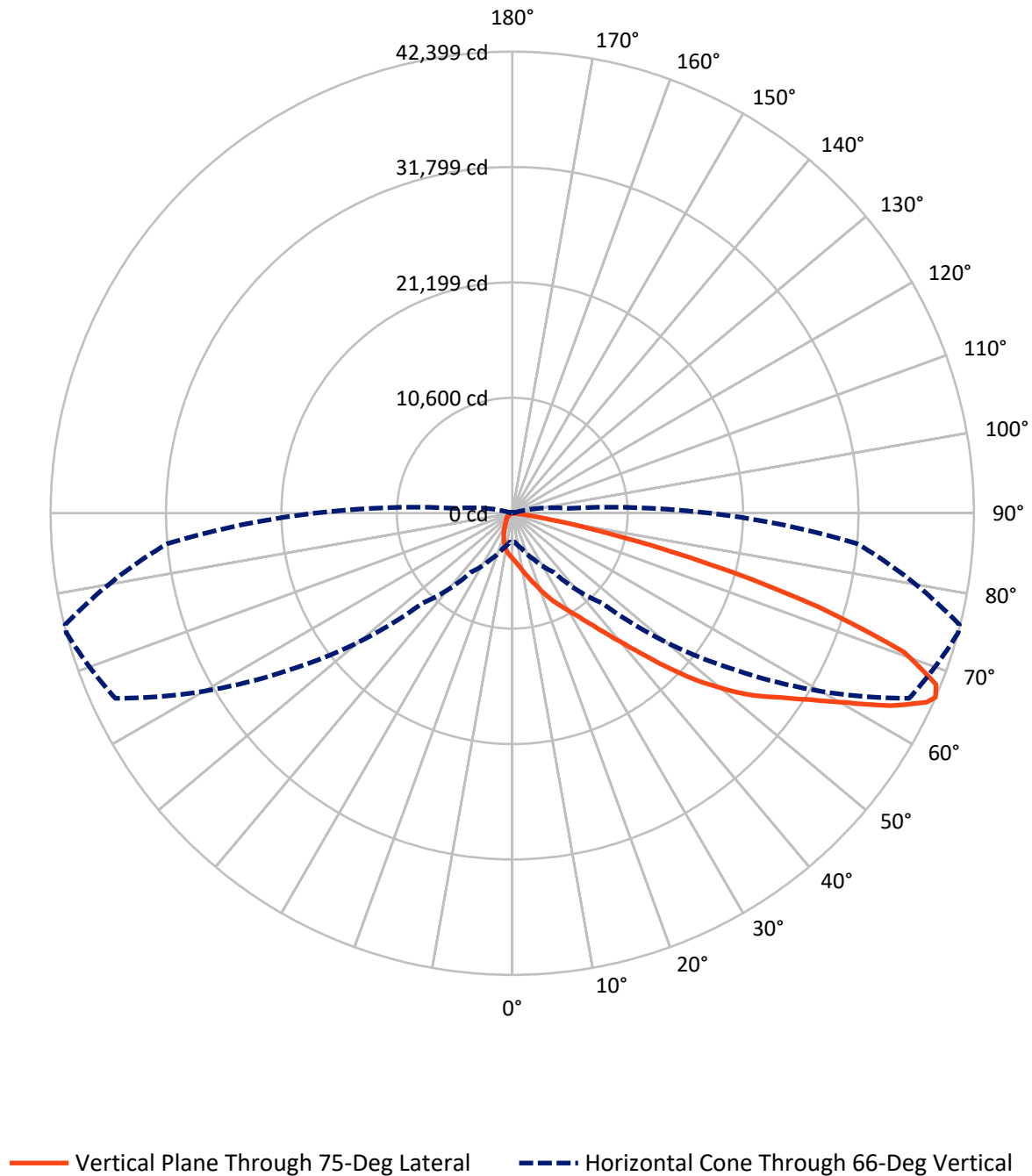
Based on 25 foot mounting height. Maximum calculated value = 11.3 fc

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	2337.4	0.0	2337.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	35523.6	0.0	35523.6
	% Fixture	93.8	0.0	93.8
Total	Lumens	37861.0	0.0	37861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.4	1.1
10°-20°	1175.3	3.1
20°-30°	2029.5	5.4
30°-40°	3660.8	9.7
40°-50°	6613.4	17.5
50°-60°	10310.3	27.2
60°-70°	9794.4	25.9
70°-80°	3670.7	9.7
80°-90°	207.1	0.5
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°	37861.0	100.0
0°-180°	37861.0	100.0

Coefficient of Utilization



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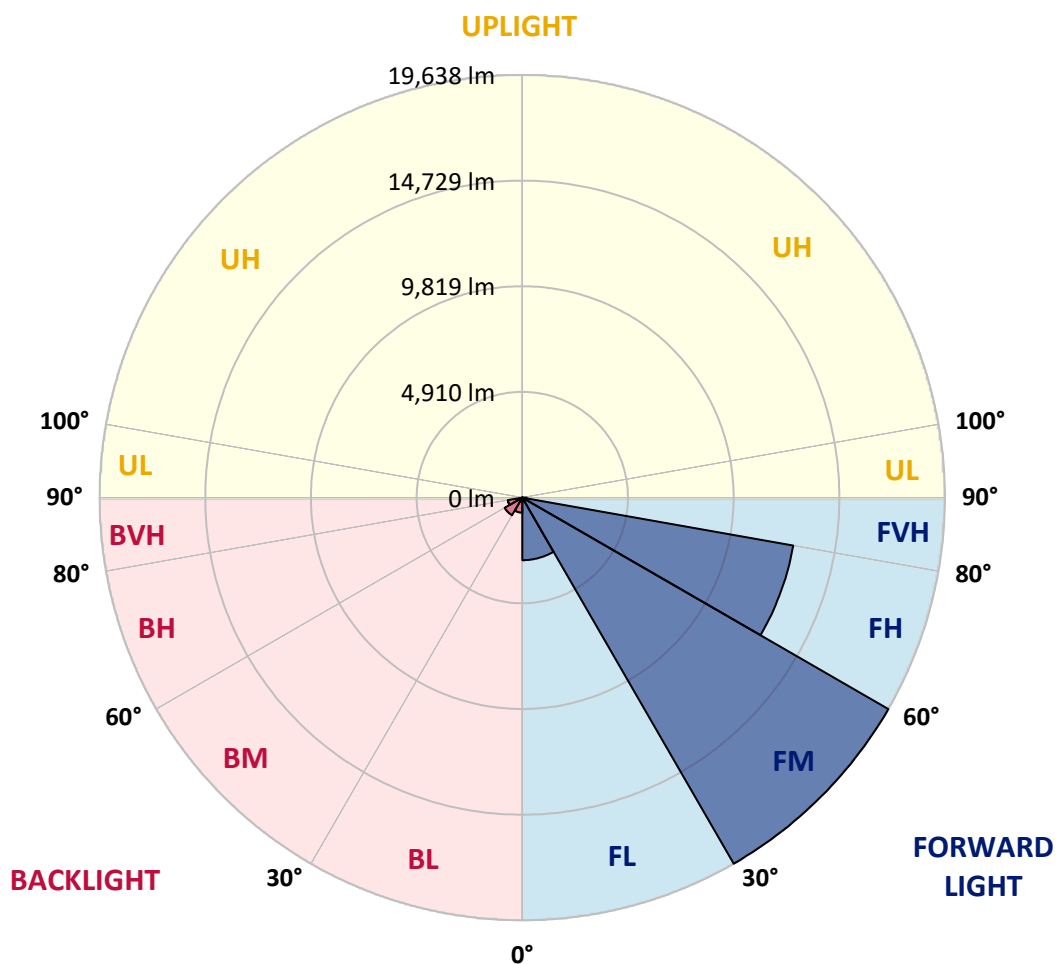
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2906.2	7.7			
FM	(30°-60°)	19638.5	51.9			
FH	(60°-80°)	12782.6	33.8			G5
FVH	(80°-90°)	196.4	0.5			G2/225
BL	(0°-30°)	698.0	1.8	B2/1000		
BM	(30°-60°)	946.1	2.5	B1/1000		
BH	(60°-80°)	682.5	1.8	B2/1000		G2/1000
BVH	(80°-90°)	10.7	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-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4140.5	4140.5	4140.5	4140.5	4140.5	4140.5	4140.5	4140.5	4140.5	4140.5	4140.5
2.5°	4946.7	4885.1	4904.7	4876.7	4812.4	4717.2	4633.2	4512.8	4392.4	4372.8	4238.5
5°	5599.0	5582.2	5559.8	5478.6	5433.8	5288.3	5114.7	4907.5	4658.4	4613.6	4370.0
7.5°	6044.1	6035.7	6046.9	6004.9	5965.8	5834.2	5649.4	5366.7	4980.3	4955.1	4549.2
10°	6189.7	6212.1	6254.1	6321.3	6382.9	6340.9	6200.9	5848.2	5397.5	5324.7	4753.6
12.5°	6105.7	6130.9	6231.7	6410.9	6609.6	6724.4	6668.4	6410.9	5839.8	5781.0	4983.1
15°	5890.2	5921.0	6063.7	6340.9	6696.4	7021.2	7161.1	6976.4	6354.9	6259.7	5260.3
17.5°	5571.0	5615.8	5820.2	6186.9	6674.0	7233.9	7628.7	7567.1	6903.6	6814.0	5562.6
20°	5330.3	5363.9	5537.4	5957.4	6578.8	7351.5	8073.8	8247.4	7581.1	7427.1	5918.2
22.5°	5489.8	5501.0	5559.8	5811.8	6408.1	7382.3	8465.7	8955.6	8300.5	8163.4	6287.7
25°	6270.9	6158.9	6100.1	6044.1	6371.7	7354.3	8821.3	9694.7	9017.2	8871.6	6654.4
27.5°	7502.7	7452.3	7155.5	6758.0	6682.4	7390.7	9056.4	10394.6	9691.9	9535.1	7012.8
30°	8843.7	8756.9	8574.9	7992.6	7407.5	7648.3	9227.2	11074.9	10489.8	10282.6	7340.3
32.5°	10075.4	10131.4	9859.9	9260.8	8583.3	8197.0	9448.3	11816.7	11405.2	11147.6	7721.0
35°	11511.6	11623.6	11206.4	10632.5	9840.3	9188.0	9879.5	12653.8	12567.0	12242.3	8308.9
37.5°	12970.1	13037.3	12782.6	11976.3	11262.4	10447.8	10691.3	13686.8	13997.5	13720.4	9011.6
40°	14196.3	14288.7	14101.1	13384.5	12623.0	11906.3	11869.9	14812.2	15699.6	15414.1	10058.6
42.5°	15134.1	15204.1	15209.7	14703.0	14017.1	13692.4	13373.3	16248.4	17832.9	17502.5	11273.6
45°	16318.3	16419.1	16360.3	16016.0	15503.7	15444.9	15279.7	17984.0	20386.0	19968.9	12849.7
47.5°	18149.2	18216.4	18070.8	17664.9	17144.2	17236.6	17138.6	19929.7	22989.6	22631.2	14481.9
50°	19420.2	19532.2	19739.3	19901.7	19523.8	19182.2	18891.1	21746.6	25461.5	25139.6	16150.4
52.5°	19406.2	19591.0	20246.1	21063.5	21889.4	21785.8	20948.7	23753.8	27821.5	27424.0	17718.1
55°	18098.8	18457.2	19420.2	20870.3	23157.5	24296.9	23916.2	26077.4	29859.6	29590.8	19535.0
57.5°	15400.1	15618.5	16956.6	18983.5	22449.3	25478.3	27354.0	29226.9	32303.5	32177.6	22356.9
60°	10358.2	10456.2	12177.9	14683.4	19112.3	24299.7	29873.6	33037.0	35313.0	35251.4	25651.9
62.5°	5935.0	5977.0	7225.5	9339.2	13600.0	20593.2	30086.3	37737.4	38921.6	38955.2	29464.8
65°	3194.2	3216.6	4224.5	5481.4	8275.4	14677.8	27054.5	40312.9	41838.7	41903.1	31827.6
66°	2757.5	2651.1	3362.2	4672.4	6584.4	11682.4	25136.8	40220.6	42398.6	42328.6	31743.6
67.5°	2096.8	2192.0	2684.7	3591.8	4879.5	8306.1	20752.8	38431.7	41973.0	41754.7	30453.1
70°	1500.5	1539.7	1912.1	2561.6	3323.0	4557.6	13261.3	31920.0	38148.9	37855.0	26531.0
72.5°	968.6	1010.6	1355.0	1853.3	2402.0	2488.8	7424.3	23062.4	29411.6	29369.7	19980.1
75°	691.5	730.7	895.8	1327.0	1805.7	1539.7	3575.0	15542.9	18697.9	18571.9	12359.8
77.5°	501.1	520.7	599.1	867.8	1290.6	1103.0	1657.3	8300.5	9308.4	9747.9	5461.8
80°	288.3	305.1	417.1	529.1	873.4	753.1	792.3	3331.4	3435.0	3269.8	1707.7
82.5°	142.8	162.4	249.2	361.1	545.9	506.7	363.9	1002.2	1058.2	1030.2	431.1
85°	33.6	42.0	140.0	238.0	266.0	226.8	176.4	293.9	363.9	355.5	165.2
87.5°	2.8	5.6	50.4	42.0	44.8	75.6	61.6	75.6	117.6	109.2	58.8
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°	4140.5	4140.5	4140.5	4140.5	4140.5	4140.5	4140.5	4140.5	4140.5	4140.5	4140.5
2.5°	4176.9	4123.7	3969.7	3818.5	3692.6	3561.0	3440.6	3370.6	3342.6	3311.8	3325.8
5°	4235.7	4106.9	3796.1	3527.4	3264.2	3040.3	2861.1	2746.3	2690.3	2681.9	2667.9
7.5°	4314.0	4092.9	3611.4	3191.4	2847.1	2597.9	2393.6	2228.4	2178.0	2133.2	2096.8
10°	4409.2	4067.7	3381.8	2838.7	2472.0	2158.4	1889.7	1693.7	1592.9	1564.9	1584.5
12.5°	4510.0	4020.1	3141.0	2514.0	2091.2	1690.9	1441.7	1343.8	1315.8	1304.6	1307.4
15°	4610.8	3961.3	2889.1	2200.4	1665.7	1349.4	1234.6	1209.4	1198.2	1192.6	1187.0
17.5°	4703.2	3866.1	2606.3	1895.3	1349.4	1153.4	1111.4	1089.0	1066.6	1058.2	1044.2
20°	4812.4	3756.9	2351.6	1553.7	1142.2	1044.2	993.8	951.8	918.2	895.8	893.0
22.5°	4915.9	3617.0	2085.6	1287.8	1041.4	937.8	856.6	811.9	772.7	744.7	753.1
25°	4971.9	3446.2	1847.7	1122.6	949.0	831.5	741.9	685.9	643.9	629.9	627.1
27.5°	4971.9	3236.2	1615.3	1027.4	865.0	736.3	643.9	590.7	562.7	543.1	545.9
30°	4932.7	3003.9	1399.8	954.6	792.3	652.3	565.5	517.9	495.5	481.5	478.7
32.5°	4901.9	2782.7	1215.0	884.6	716.7	579.5	503.9	467.5	445.1	431.1	431.1
35°	4949.5	2592.3	1072.2	814.7	646.7	523.5	456.3	422.7	400.3	389.1	386.3
37.5°	5075.5	2418.8	963.0	739.1	582.3	475.9	422.7	383.5	361.1	347.1	341.5
40°	5386.3	2320.8	881.8	669.1	520.7	436.7	383.5	347.1	319.1	305.1	302.3
42.5°	5884.6	2323.6	803.5	604.7	473.1	403.1	349.9	307.9	277.2	263.2	260.4
45°	6634.8	2430.0	741.9	543.1	431.1	366.7	313.5	268.8	240.8	226.8	226.8
47.5°	7533.5	2637.1	688.7	489.9	391.9	333.1	277.2	232.4	204.4	193.2	193.2
50°	8507.7	2905.9	635.5	433.9	358.3	296.7	238.0	201.6	179.2	170.8	170.8
52.5°	9501.5	3230.6	582.3	389.1	321.9	257.6	204.4	179.2	159.6	154.0	151.2
55°	10806.1	3645.0	526.3	341.5	282.8	221.2	182.0	156.8	134.4	126.0	123.2
57.5°	12813.4	4269.3	464.7	299.5	232.4	184.8	156.8	131.6	106.4	92.4	89.6
60°	15234.9	5030.7	400.3	263.2	187.6	151.2	126.0	100.8	78.4	61.6	58.8
62.5°	17502.5	5515.0	338.7	221.2	148.4	114.8	89.6	75.6	56.0	39.2	36.4
65°	18504.8	5352.7	280.0	179.2	117.6	81.2	58.8	53.2	33.6	16.8	14.0
66°	18171.6	5111.9	257.6	162.4	106.4	70.0	50.4	44.8	25.2	8.4	8.4
67.5°	17189.0	4543.6	224.0	140.0	92.4	56.0	39.2	33.6	14.0	2.8	0.0
70°	14728.2	3675.8	176.4	103.6	67.2	39.2	22.4	16.8	8.4	0.0	0.0
72.5°	11312.8	2737.9	140.0	78.4	47.6	22.4	11.2	5.6	8.4	0.0	0.0
75°	6931.6	1564.9	109.2	58.8	30.8	14.0	8.4	0.0	8.4	2.8	0.0
77.5°	3076.7	702.7	72.8	39.2	22.4	11.2	5.6	0.0	5.6	2.8	0.0
80°	778.3	229.6	42.0	28.0	16.8	8.4	2.8	0.0	5.6	5.6	2.8
82.5°	212.8	84.0	30.8	22.4	14.0	8.4	2.8	0.0	5.6	5.6	5.6
85°	84.0	39.2	28.0	22.4	16.8	8.4	2.8	0.0	5.6	5.6	5.6
87.5°	39.2	28.0	28.0	25.2	19.6	8.4	2.8	0.0	5.6	2.8	5.6
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)