

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: P458039

Luminaire Tested: **GALN-SA9B-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32819 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 364
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

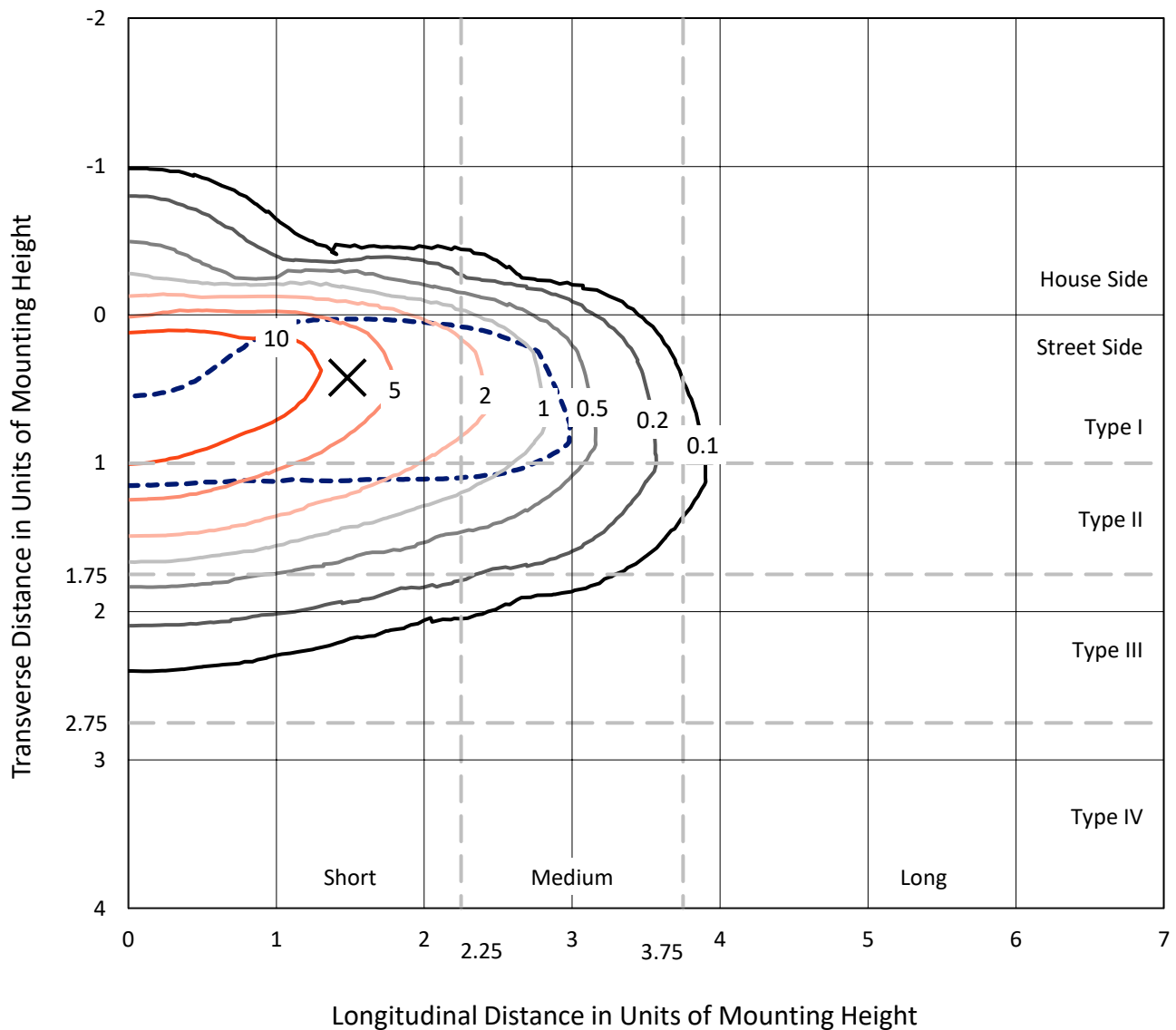


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

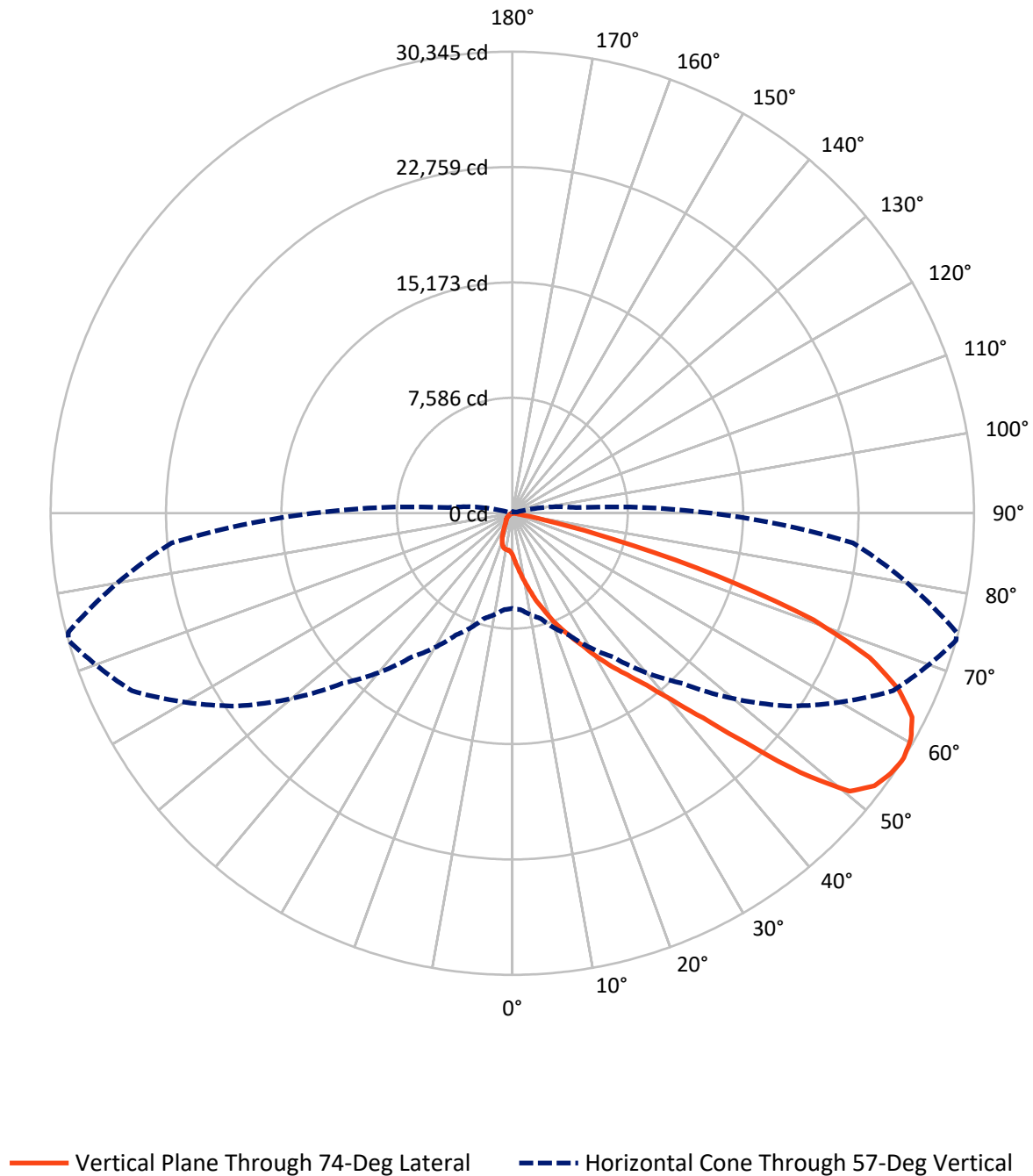


Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1892.9	0.0	1892.9
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	30926.1	0.0	30926.1
	% Fixture	94.2	0.0	94.2
Total	Lumens	32819.0	0.0	32819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.8	1.0
10°-20°	1307.6	4.0
20°-30°	2798.0	8.5
30°-40°	5142.8	15.7
40°-50°	7884.0	24.0
50°-60°	8340.2	25.4
60°-70°	5446.4	16.6
70°-80°	1488.1	4.5
80°-90°	80.1	0.2
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°	32819.0	100.0
0°-180°	32819.0	100.0

Coefficient of Utilization



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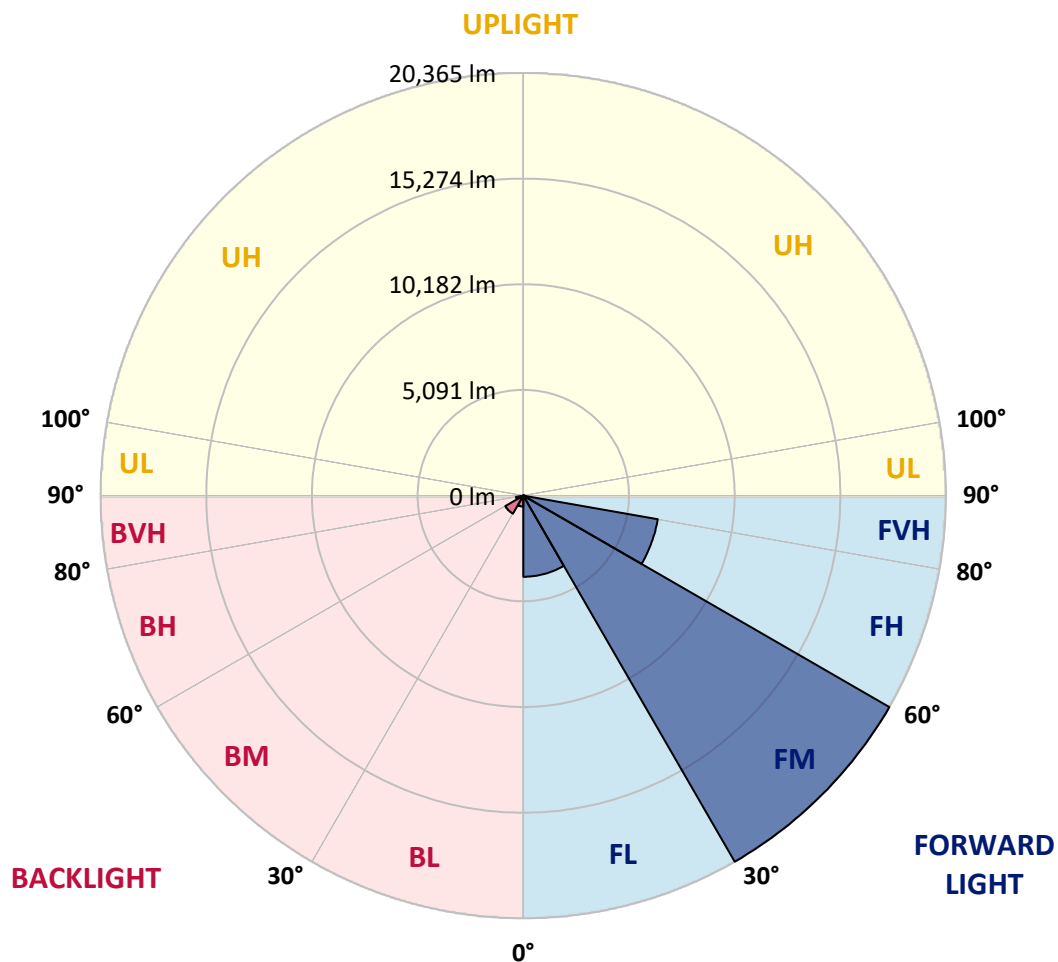
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3908.7	11.9			
FM	(30°-60°)	20364.8	62.1			
FH	(60°-80°)	6579.1	20.0			G3/7500
FVH	(80°-90°)	73.5	0.2			G1/100
BL	(0°-30°)	528.7	1.6	B2/1000		
BM	(30°-60°)	1002.2	3.1	B2/2500		
BH	(60°-80°)	355.4	1.1	B1/500		G1/500
BVH	(80°-90°)	6.6	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2748.5	2748.5	2748.5	2748.5	2748.5	2748.5	2748.5	2748.5	2748.5	2748.5	2748.5
2.5°	4022.0	3985.7	3913.2	3888.3	3781.8	3616.4	3471.4	3276.5	3122.4	3106.6	2920.8
5°	5386.1	5304.5	5270.5	5107.4	4851.3	4611.1	4198.7	3886.0	3525.8	3498.6	3124.7
7.5°	6700.3	6587.0	6553.0	6398.9	6099.8	5721.4	5186.7	4617.9	4046.9	3994.8	3398.9
10°	7652.0	7667.8	7606.7	7504.7	7262.2	6877.0	6217.7	5440.4	4627.0	4561.3	3707.0
12.5°	8334.0	8331.8	8343.1	8340.8	8211.7	7919.4	7226.0	6331.0	5266.0	5136.8	4060.5
15°	8778.1	8784.9	8818.9	8936.7	8950.3	8769.1	8191.3	7182.9	6006.9	5846.0	4443.4
17.5°	9226.8	9274.4	9328.8	9439.8	9539.5	9467.0	9059.1	8071.2	6677.6	6557.5	4853.6
20°	9967.7	10033.4	10001.7	10069.7	10121.8	10128.6	9813.7	8891.4	7491.1	7289.4	5322.6
22.5°	11152.8	11150.5	11069.0	10946.6	10844.6	10840.1	10554.6	9734.3	8229.8	8034.9	5793.9
25°	12650.6	12657.4	12498.8	12149.8	11896.0	11585.6	11257.0	10473.0	9020.6	8780.4	6290.2
27.5°	14368.1	14325.1	14084.9	13604.5	13101.5	12571.3	12097.7	11331.8	9859.0	9659.6	6858.9
30°	15911.2	15895.4	15614.4	15027.5	14365.9	13833.4	13146.8	12408.1	10944.3	10699.6	7495.6
32.5°	17347.8	17370.5	16980.7	16373.5	15734.5	15120.4	14395.3	13436.8	12009.3	11662.6	8189.0
35°	18469.4	18492.1	18088.8	17583.5	16926.3	16416.5	15725.4	14533.5	13060.7	12768.4	8986.6
37.5°	19067.6	19097.1	18863.7	18483.0	18072.9	17816.8	17173.3	15945.2	14338.7	14161.9	9929.2
40°	19180.9	19214.9	19112.9	19011.0	18988.3	19171.9	18983.8	17608.4	16110.6	15834.2	11334.1
42.5°	18841.0	18886.4	18931.7	19158.3	19620.5	20293.5	20948.3	19865.2	18392.4	18020.8	13051.6
45°	17948.3	17943.7	18122.7	18709.6	19745.1	21181.7	23001.2	22690.8	21501.2	21059.4	15478.4
47.5°	16421.0	16398.4	16785.9	17622.0	19235.3	21344.9	24675.8	26121.4	25468.8	25061.0	18086.5
50°	14094.0	14205.0	14814.5	15981.5	17968.7	20850.9	25192.4	28371.5	28724.9	28292.1	20193.8
52.5°	11368.1	11363.5	12319.8	13903.6	16092.5	19763.3	24832.1	28779.3	29783.1	29452.3	21231.6
55°	8413.3	8472.2	9467.0	11064.4	13656.6	17778.3	23656.1	28360.1	30186.4	29953.1	21915.9
57°	6258.4	6362.7	7160.3	8850.6	11535.7	15813.8	22090.4	27610.1	30345.1	30218.2	22484.6
57.5°	5841.5	5846.0	6623.3	8159.5	10914.9	15059.2	21641.7	27297.4	30340.5	30270.3	22577.5
60°	3596.0	3709.3	4246.3	5515.2	7989.6	11753.3	18634.8	25500.5	30104.9	30206.8	22974.1
62.5°	2152.6	2200.2	2549.1	3324.1	5150.4	8578.7	15249.6	23200.6	29490.8	29801.2	22946.9
65°	1384.5	1395.8	1554.4	2012.1	3219.9	5798.5	11751.0	20162.1	27902.4	28473.4	22049.6
67.5°	1069.5	1087.6	1151.1	1321.0	1867.1	3611.9	8311.4	16919.5	25332.9	26069.3	19874.3
70°	949.4	958.5	981.1	1035.5	1234.9	2039.3	5170.8	13217.1	21007.2	21215.7	15553.2
72.5°	774.9	799.9	870.1	888.2	978.9	1273.4	2877.7	8871.0	14114.4	14166.5	8701.1
75°	600.5	605.0	709.2	761.3	824.8	876.9	1284.8	4472.9	6779.6	6417.1	3353.5
77.5°	448.7	469.0	516.6	582.3	673.0	627.7	575.5	1685.8	2105.0	2066.5	974.3
80°	287.8	299.1	360.3	437.3	523.4	410.1	324.0	494.0	462.2	475.8	233.4
82.5°	145.0	147.3	231.1	355.7	333.1	206.2	203.9	201.7	172.2	169.9	108.8
85°	15.9	34.0	149.6	203.9	149.6	68.0	95.2	92.9	90.6	92.9	63.4
87.5°	2.3	2.3	24.9	29.5	20.4	22.7	27.2	29.5	36.3	34.0	27.2
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°	2748.5	2748.5	2748.5	2748.5	2748.5	2748.5	2748.5	2748.5	2748.5	2748.5	2748.5
2.5°	2830.1	2739.5	2571.8	2410.9	2290.8	2213.8	2114.1	2077.8	2025.7	2018.9	1994.0
5°	2952.5	2780.3	2488.0	2256.8	2071.0	1930.6	1808.2	1706.2	1624.7	1606.5	1615.6
7.5°	3127.0	2870.9	2463.0	2148.1	1889.8	1649.6	1454.7	1334.6	1248.5	1216.8	1221.3
10°	3324.1	2991.0	2458.5	2032.5	1638.3	1343.7	1130.7	1024.2	974.3	956.2	935.8
12.5°	3557.5	3129.2	2447.2	1853.5	1361.8	1071.8	920.0	856.5	808.9	795.3	795.3
15°	3820.3	3276.5	2392.8	1631.5	1105.8	886.0	784.0	734.2	718.3	704.7	704.7
17.5°	4094.5	3421.5	2279.5	1357.3	917.7	759.1	695.6	666.2	643.5	627.7	627.7
20°	4407.2	3564.3	2098.2	1114.8	774.9	677.5	627.7	593.7	575.5	561.9	557.4
22.5°	4704.0	3679.8	1867.1	915.4	675.2	609.5	564.2	528.0	509.8	503.0	503.0
25°	5012.2	3750.1	1588.4	756.8	616.3	552.9	503.0	473.6	457.7	453.2	450.9
27.5°	5311.3	3790.9	1343.7	661.6	561.9	500.8	453.2	430.5	414.7	410.1	412.4
30°	5673.8	3797.7	1105.8	593.7	514.4	450.9	407.9	387.5	378.4	373.9	371.6
32.5°	6040.9	3788.6	929.0	552.9	469.0	407.9	371.6	355.7	349.0	342.2	342.2
35°	6453.3	3741.0	790.8	512.1	426.0	371.6	339.9	326.3	317.2	310.4	308.2
37.5°	6965.4	3716.1	711.5	466.8	387.5	337.6	308.2	294.6	287.8	278.7	276.4
40°	7772.1	3827.1	686.6	426.0	349.0	305.9	278.7	262.8	253.8	244.7	242.5
42.5°	8778.1	4022.0	645.8	385.2	315.0	276.4	249.3	231.1	215.3	203.9	199.4
45°	10081.0	4278.0	582.3	342.2	285.5	244.7	219.8	197.1	176.7	167.7	165.4
47.5°	11447.4	4525.0	525.7	308.2	253.8	217.5	190.3	165.4	147.3	140.5	138.2
50°	12285.8	4574.9	489.4	269.6	222.1	188.1	160.9	138.2	126.9	120.1	120.1
52.5°	12668.7	4495.6	439.6	235.7	192.6	165.4	138.2	120.1	113.3	108.8	106.5
55°	12936.1	4373.2	373.9	203.9	165.4	140.5	122.4	108.8	99.7	95.2	92.9
57°	13092.4	4207.8	324.0	179.0	142.8	122.4	108.8	97.4	88.4	79.3	79.3
57.5°	13099.2	4144.3	310.4	176.7	136.0	117.8	106.5	95.2	83.8	74.8	72.5
60°	12897.6	3709.3	249.3	149.6	108.8	99.7	88.4	74.8	58.9	49.9	47.6
62.5°	12249.5	3156.4	206.2	126.9	88.4	77.0	63.4	56.6	40.8	29.5	29.5
65°	11268.4	2560.5	176.7	102.0	72.5	56.6	43.1	40.8	24.9	13.6	11.3
67.5°	9849.9	1994.0	149.6	83.8	61.2	40.8	29.5	27.2	13.6	4.5	0.0
70°	7504.7	1359.5	124.6	68.0	45.3	29.5	20.4	15.9	9.1	2.3	0.0
72.5°	4325.6	747.8	104.2	52.1	34.0	22.7	15.9	9.1	9.1	0.0	0.0
75°	1545.4	321.8	79.3	38.5	27.2	18.1	11.3	4.5	6.8	2.3	0.0
77.5°	491.7	172.2	52.1	29.5	22.7	13.6	9.1	4.5	4.5	2.3	0.0
80°	145.0	90.6	31.7	24.9	15.9	11.3	6.8	2.3	4.5	2.3	0.0
82.5°	79.3	45.3	24.9	18.1	15.9	9.1	6.8	2.3	2.3	2.3	0.0
85°	40.8	27.2	20.4	18.1	15.9	9.1	6.8	2.3	0.0	2.3	2.3
87.5°	22.7	20.4	20.4	18.1	15.9	11.3	6.8	2.3	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)