

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: P458023

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
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-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33585 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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

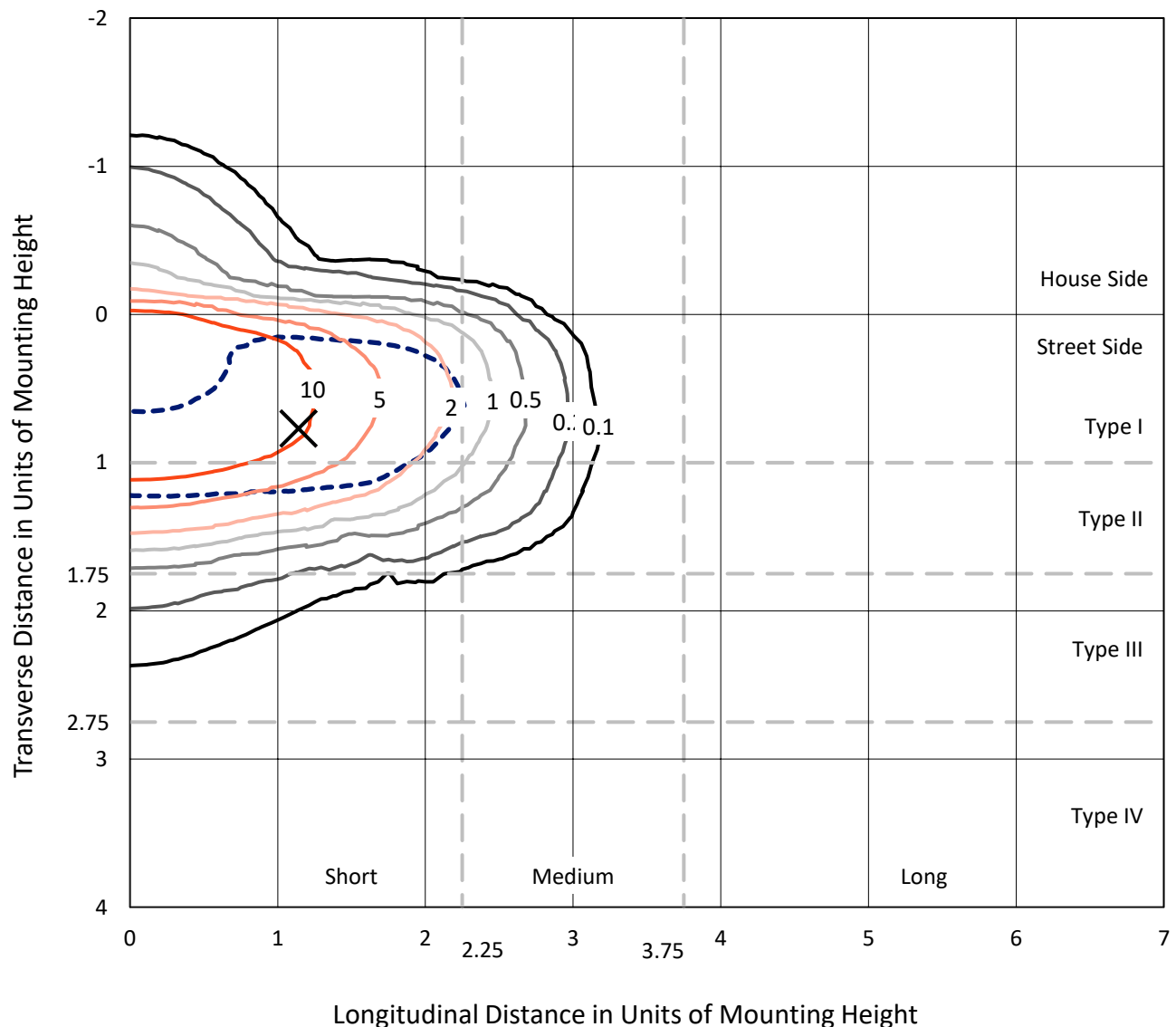


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

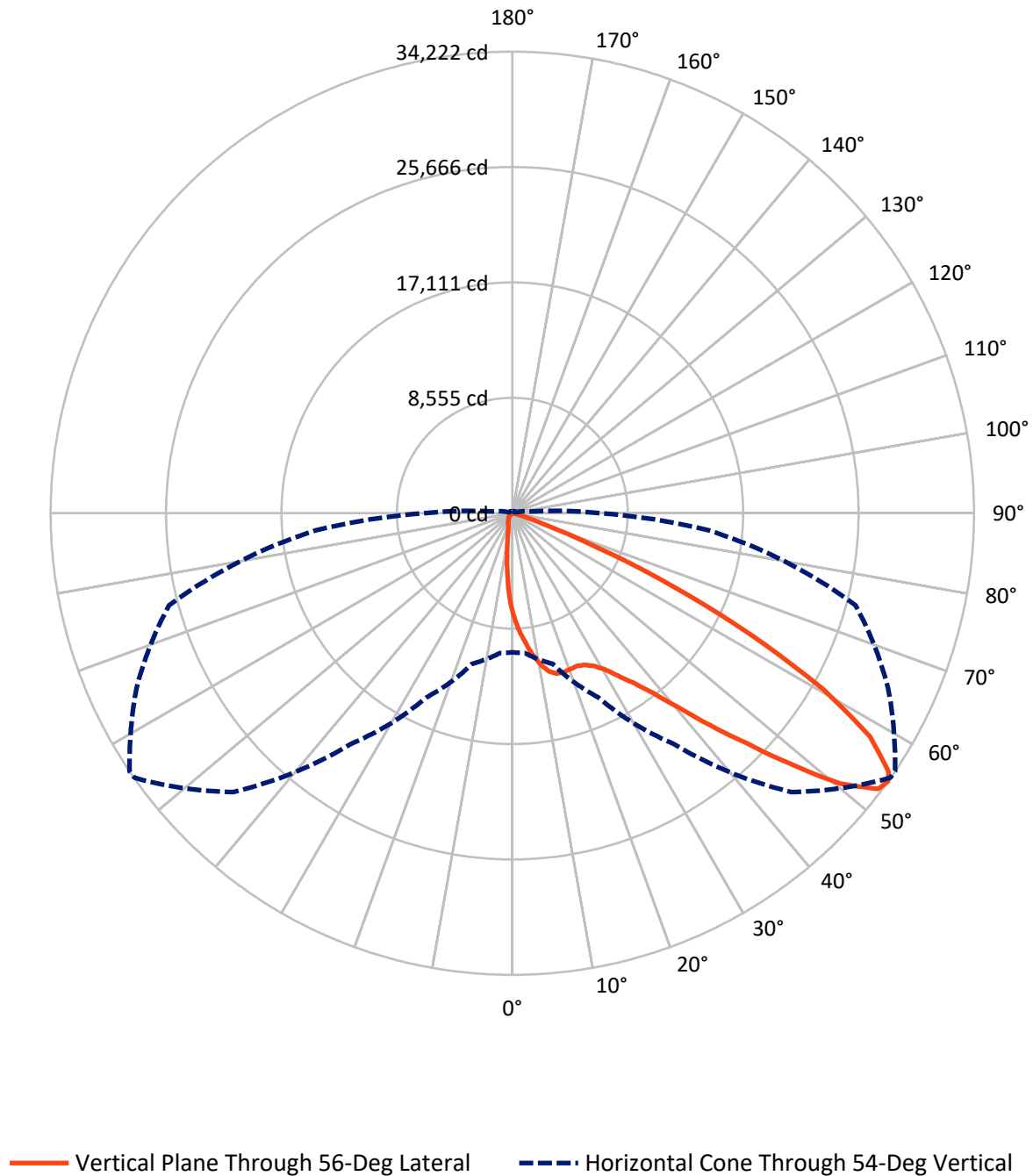


Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1588.2	0.0	1588.2
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	31996.8	0.0	31996.8
	% Fixture	95.3	0.0	95.3
Total	Lumens	33585.0	0.0	33585.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	659.3	2.0
10°-20°	1782.5	5.3
20°-30°	3087.1	9.2
30°-40°	5328.7	15.9
40°-50°	9069.7	27.0
50°-60°	8975.6	26.7
60°-70°	4096.7	12.2
70°-80°	526.1	1.6
80°-90°	59.3	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°	33585.0	100.0
0°-180°	33585.0	100.0

Coefficient of Utilization



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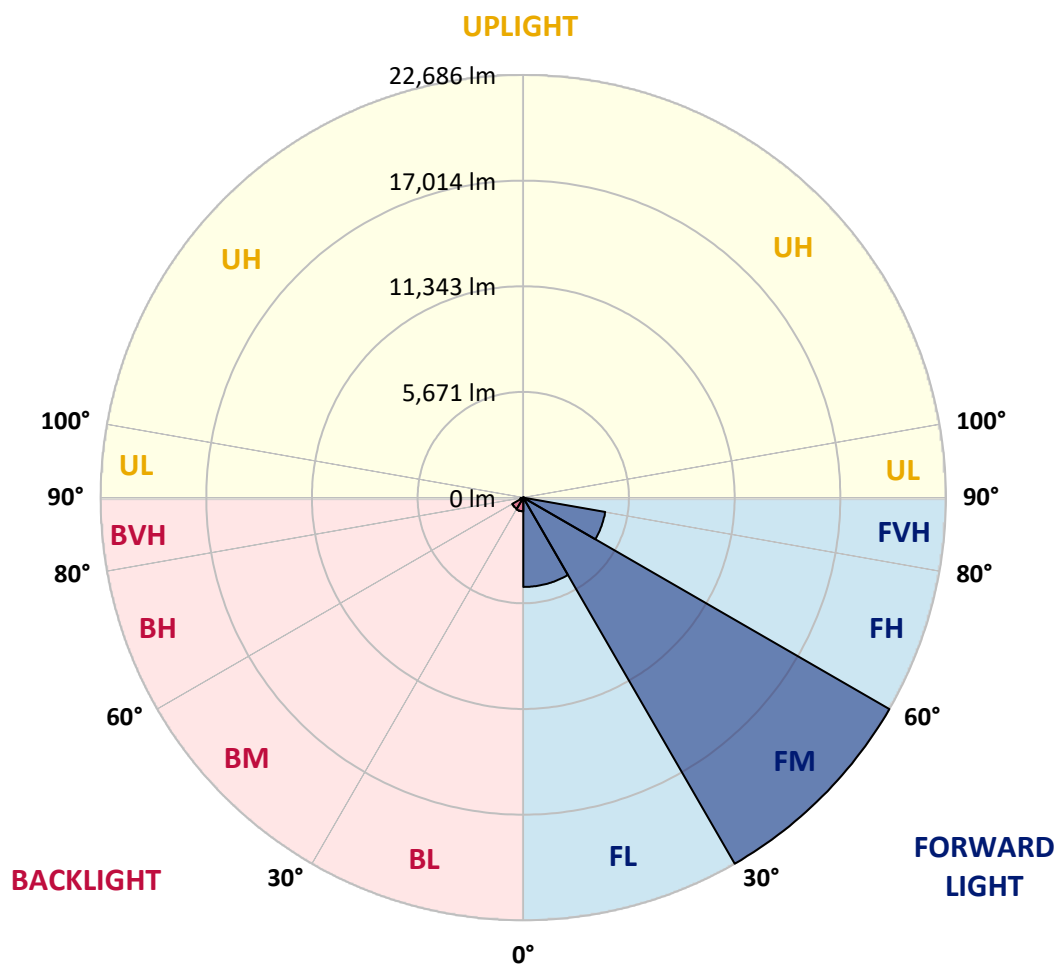
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4794.4	14.3			
FM	(30°-60°)	22685.8	67.5			
FH	(60°-80°)	4463.7	13.3			G2/5000
FVH	(80°-90°)	52.9	0.2			G1/100
BL	(0°-30°)	734.5	2.2	B2/1000		
BM	(30°-60°)	688.3	2.0	B1/1000		
BH	(60°-80°)	159.0	0.5	B1/500		G1/500
BVH	(80°-90°)	6.4	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7461.6	7461.6	7461.6	7461.6	7461.6	7461.6	7461.6	7461.6	7461.6	7461.6	7461.6
2.5°	9482.8	9417.1	9326.5	9256.2	9090.8	8852.9	8601.4	8601.4	8358.9	8021.3	7676.9
5°	10937.5	10894.5	10806.1	10624.8	10439.0	10105.9	9600.6	9512.3	9079.5	8467.7	7824.2
7.5°	11528.9	11549.3	11553.8	11506.3	11417.9	11089.3	10588.6	10527.4	9836.3	9016.0	8016.8
10°	10962.4	11062.1	11159.6	11356.7	11635.4	11714.7	11431.5	11368.0	10688.3	9571.2	8225.2
12.5°	10119.5	10173.9	10228.3	10538.7	11098.4	11739.6	12036.5	12034.2	11458.7	10124.1	8490.3
15°	9727.5	9775.1	9779.6	9917.9	10402.8	11336.3	12294.8	12328.8	12211.0	10806.1	8775.8
17.5°	9809.1	9847.6	9815.9	9849.9	10103.7	10892.2	12265.3	12378.6	12820.5	11460.9	9034.2
20°	10341.6	10416.4	10294.0	10198.8	10275.9	10774.4	12165.6	12324.3	13251.0	12099.9	9269.8
22.5°	11297.8	11338.6	11184.5	10923.9	10788.0	11021.4	12138.4	12294.8	13618.1	12623.4	9405.8
25°	12360.5	12346.9	12177.0	11884.7	11599.2	11519.9	12317.5	12457.9	13921.7	13094.7	9446.6
27.5°	13423.2	13464.0	13178.5	12816.0	12473.8	12267.6	12718.5	12822.8	14263.9	13631.7	9496.4
30°	14658.1	14592.4	14311.4	13896.8	13504.8	13217.0	13364.3	13393.8	14735.2	14343.2	9627.8
32.5°	16264.7	16083.4	15768.4	15043.3	14762.4	14275.2	14311.4	14347.7	15308.4	15047.9	9786.4
35°	18444.5	18435.4	17819.1	16842.5	16158.2	15553.2	15394.6	15424.0	16176.3	16094.7	10137.7
37.5°	21068.4	21104.6	20402.2	19418.8	18159.0	17198.2	16871.9	16876.5	17495.0	17540.4	10672.4
40°	23205.1	23300.3	22881.1	22217.2	20973.2	19470.9	18922.6	18872.7	19348.6	19291.9	11436.0
42.5°	24125.1	24213.4	24369.8	24600.9	23916.6	22677.2	21383.3	21451.3	21596.3	21199.8	12292.5
45°	23674.2	23814.7	24428.7	25856.2	26499.7	26082.8	24539.7	24301.8	23687.8	23273.1	13153.6
47.5°	21795.7	22137.9	23164.3	25541.3	27793.6	29203.0	28101.7	27786.8	25781.5	24786.7	13701.9
50°	18707.3	18727.7	20157.5	23196.1	27122.9	31172.0	31738.5	31502.9	27732.4	25636.4	13978.4
52.5°	13561.4	14007.8	15317.5	18836.5	24218.0	30872.9	34056.5	33959.1	29744.5	26071.5	14377.2
54°	10309.9	10396.0	11560.6	15052.4	20880.3	29230.2	34199.3	34221.9	30743.8	26334.3	14612.8
55°	8451.8	8245.6	9469.2	12822.8	18603.1	27777.7	33732.5	33841.3	31192.4	26470.3	14787.3
57.5°	4006.1	4008.4	4944.2	6763.7	11651.3	21569.1	30879.7	31264.9	31242.3	26703.7	15324.3
60°	2028.0	2041.6	2247.8	3122.4	5755.4	14338.6	25532.2	26449.9	28838.2	26737.7	15501.0
62.5°	1418.5	1402.6	1368.6	1502.3	2422.3	7287.1	19008.7	19806.3	24501.2	25443.8	14939.1
65°	1214.5	1180.5	1085.4	1065.0	1223.6	2902.6	11839.3	13140.0	18707.3	22031.4	13339.4
67.5°	1037.8	1024.2	938.1	886.0	865.6	1264.4	6108.9	6793.2	12786.5	15836.4	10103.7
70°	881.4	874.6	822.5	756.8	700.2	756.8	2265.9	2807.5	7126.3	8526.6	4767.5
72.5°	716.0	722.8	731.9	648.0	589.1	537.0	967.5	1126.2	2981.9	3047.6	1667.7
75°	627.7	620.9	620.9	564.2	491.7	398.8	532.5	573.3	913.2	847.4	387.5
77.5°	441.9	426.0	498.5	464.5	410.1	283.2	303.6	321.8	378.4	324.0	181.3
80°	305.9	305.9	319.5	416.9	369.3	206.2	185.8	199.4	224.3	192.6	104.2
82.5°	172.2	176.7	208.5	222.1	215.3	138.2	122.4	124.6	149.5	131.4	65.7
85°	20.4	34.0	120.1	117.8	88.4	61.2	68.0	70.2	92.9	81.6	38.5
87.5°	2.3	4.5	24.9	31.7	22.7	24.9	24.9	24.9	31.7	36.3	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°	7461.6	7461.6	7461.6	7461.6	7461.6	7461.6	7461.6	7461.6	7461.6	7461.6	7461.6
2.5°	7491.1	7318.9	6908.7	6432.9	6129.3	5635.3	5218.4	4917.0	4842.2	4697.2	4740.3
5°	7482.0	7124.0	6287.9	5404.2	4461.6	3759.1	3235.7	2823.3	2642.0	2522.0	2438.1
7.5°	7486.5	6926.9	5585.5	4178.3	3052.2	2363.3	1878.4	1626.9	1459.2	1389.0	1398.1
10°	7500.1	6704.8	4769.7	3095.2	2059.7	1527.2	1230.4	1110.3	1053.6	1044.6	1042.3
12.5°	7531.9	6462.4	3990.3	2297.6	1441.1	1110.3	997.0	956.2	938.1	938.1	931.3
15°	7565.9	6195.0	3342.2	1708.5	1110.3	953.9	901.8	881.4	870.1	870.1	867.8
17.5°	7565.9	5886.8	2737.2	1325.6	956.2	876.9	836.1	808.9	799.9	799.9	797.6
20°	7518.3	5528.8	2200.2	1067.2	867.8	804.4	763.6	734.2	722.8	718.3	716.0
22.5°	7352.9	5050.7	1751.5	917.7	795.3	741.0	688.8	654.8	645.8	641.3	643.5
25°	7058.3	4511.4	1386.7	806.7	729.6	663.9	618.6	593.7	584.6	584.6	586.9
27.5°	6754.7	3947.2	1099.0	722.8	650.3	591.4	555.1	539.3	537.0	543.8	546.1
30°	6473.7	3380.7	890.5	654.8	580.1	530.2	505.3	500.8	500.8	503.0	505.3
32.5°	6161.0	2884.5	745.5	595.9	523.4	480.4	466.8	466.8	471.3	471.3	475.8
35°	5963.9	2458.5	654.8	539.3	480.4	444.1	435.1	437.3	444.1	453.2	457.7
37.5°	5857.4	2118.6	595.9	494.0	439.6	414.7	405.6	410.1	426.0	441.9	444.1
40°	5866.4	1862.6	548.3	455.4	407.9	380.7	373.9	387.5	403.3	419.2	421.5
42.5°	5966.1	1672.2	503.0	410.1	380.7	342.2	339.9	353.5	360.3	376.1	378.4
45°	6084.0	1534.0	455.4	362.5	330.8	296.8	299.1	310.4	319.5	344.4	348.9
47.5°	6120.2	1438.8	401.1	308.2	271.9	260.6	262.8	269.6	287.8	310.4	312.7
50°	6161.0	1379.9	348.9	260.6	231.1	228.9	231.1	235.7	247.0	256.0	253.8
52.5°	6335.5	1377.7	305.9	226.6	197.1	201.7	203.9	201.7	192.6	179.0	174.5
54°	6498.6	1384.5	285.5	210.7	181.3	188.1	185.8	174.5	151.8	138.2	131.4
55°	6630.0	1391.3	274.2	199.4	172.2	174.5	176.7	154.1	124.6	111.0	106.5
57.5°	6888.3	1375.4	247.0	174.5	151.8	142.8	140.5	102.0	68.0	58.9	54.4
60°	6759.2	1241.7	224.3	149.5	129.2	115.6	95.2	56.6	34.0	24.9	24.9
62.5°	6251.6	1053.6	199.4	122.4	106.5	88.4	49.8	31.7	15.9	9.1	6.8
65°	5592.3	886.0	179.0	97.4	83.8	56.6	27.2	20.4	6.8	0.0	0.0
67.5°	4157.9	657.1	151.8	77.0	63.4	36.3	18.1	11.3	2.3	0.0	0.0
70°	1926.0	401.1	129.2	58.9	45.3	27.2	13.6	6.8	0.0	0.0	0.0
72.5°	552.9	251.5	106.5	43.1	31.7	22.7	11.3	4.5	2.3	0.0	0.0
75°	192.6	201.7	79.3	31.7	24.9	15.9	9.1	4.5	2.3	0.0	0.0
77.5°	115.6	163.1	49.8	27.2	20.4	13.6	9.1	4.5	2.3	2.3	0.0
80°	65.7	108.8	31.7	22.7	18.1	11.3	6.8	4.5	2.3	2.3	0.0
82.5°	36.3	52.1	24.9	20.4	15.9	11.3	6.8	4.5	2.3	2.3	2.3
85°	29.5	27.2	20.4	18.1	13.6	9.1	6.8	2.3	0.0	0.0	0.0
87.5°	22.7	18.1	18.1	18.1	13.6	9.1	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)