

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: P457927

Luminaire Tested: **GALN-SA9B-740-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40388 lumens
Efficiency: N/A
Efficacy: 111.0 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

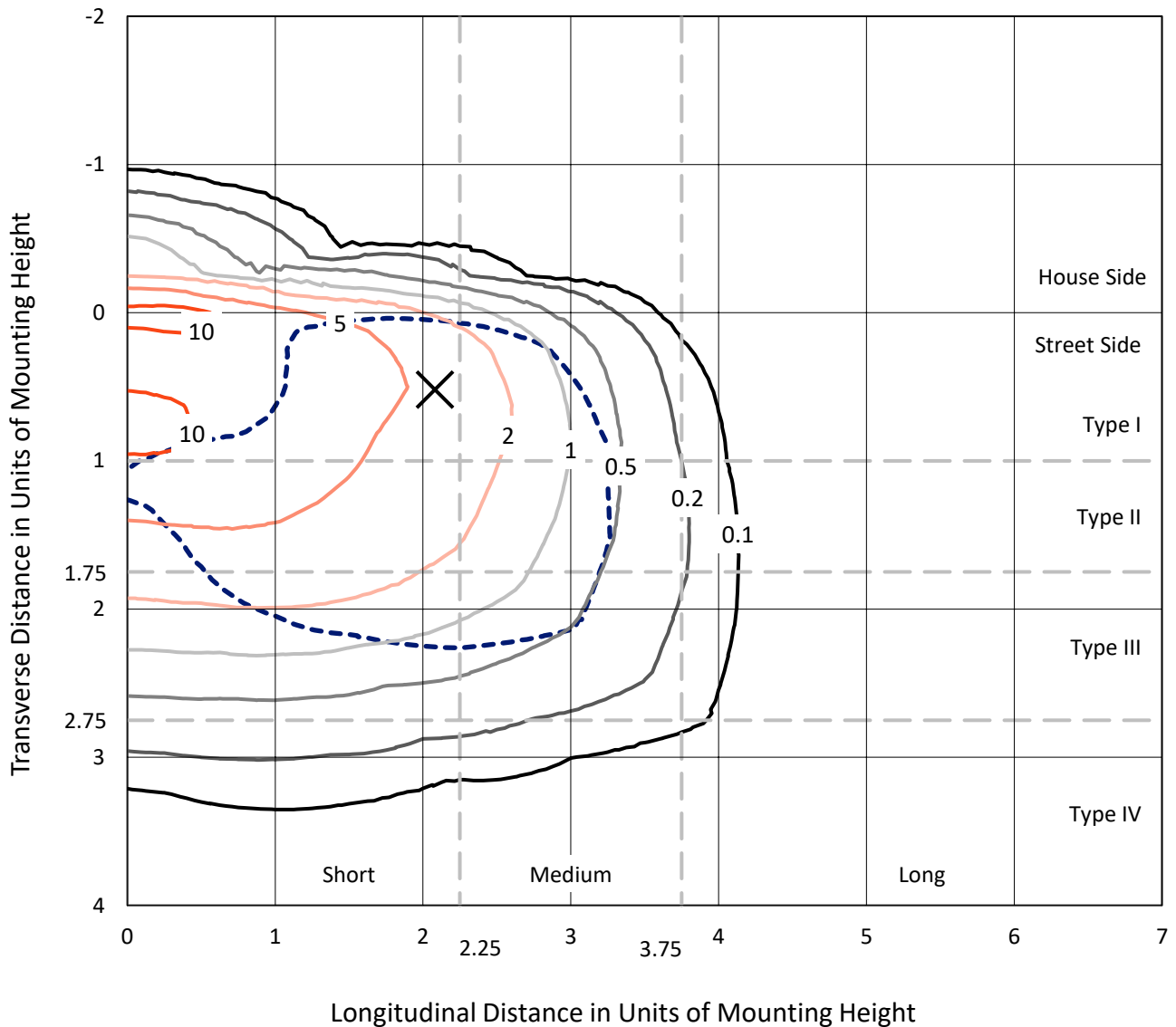
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

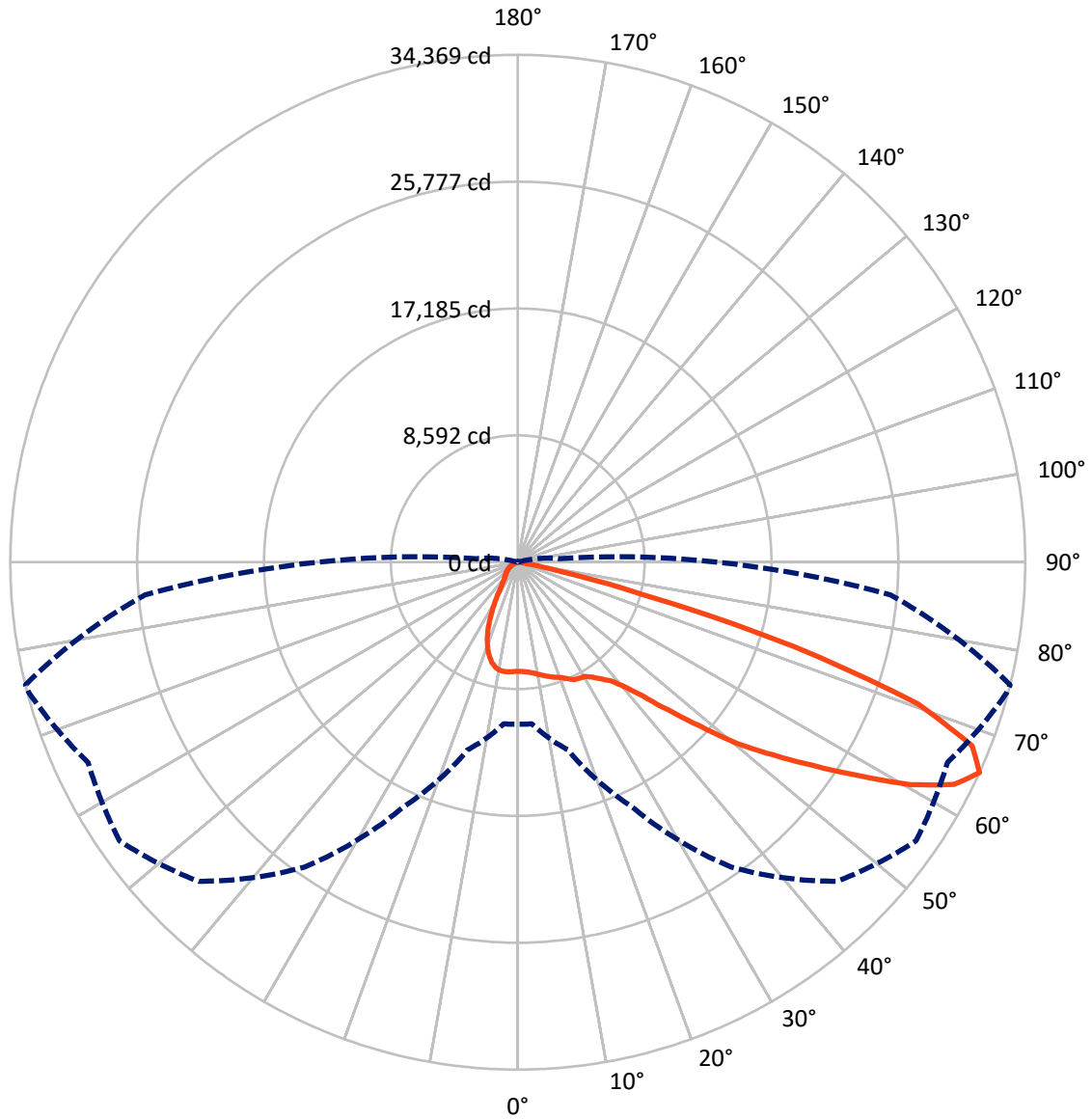
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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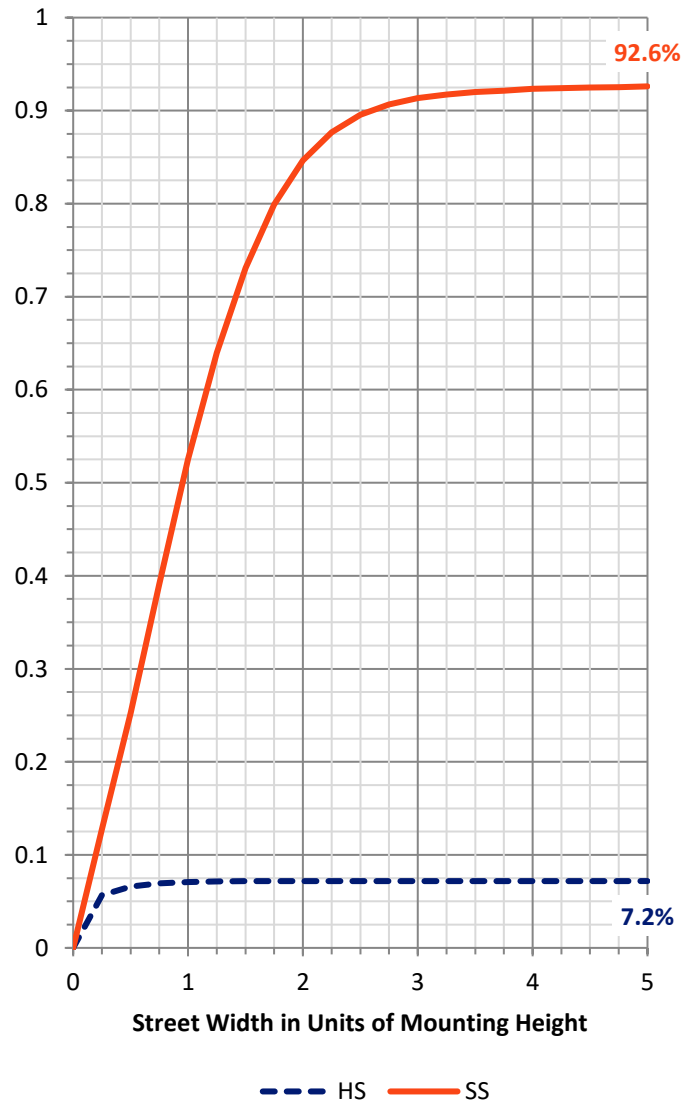
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2916.8	0.0	2916.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	37471.2	0.0	37471.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	40388.0	0.0	40388.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	608.6	1.5
10°-20°	1355.1	3.4
20°-30°	2183.7	5.4
30°-40°	3796.9	9.4
40°-50°	6274.1	15.5
50°-60°	9692.2	24.0
60°-70°	11835.6	29.3
70°-80°	4491.9	11.1
80°-90°	149.9	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°	40388.0	100.0
0°-180°	40388.0	100.0



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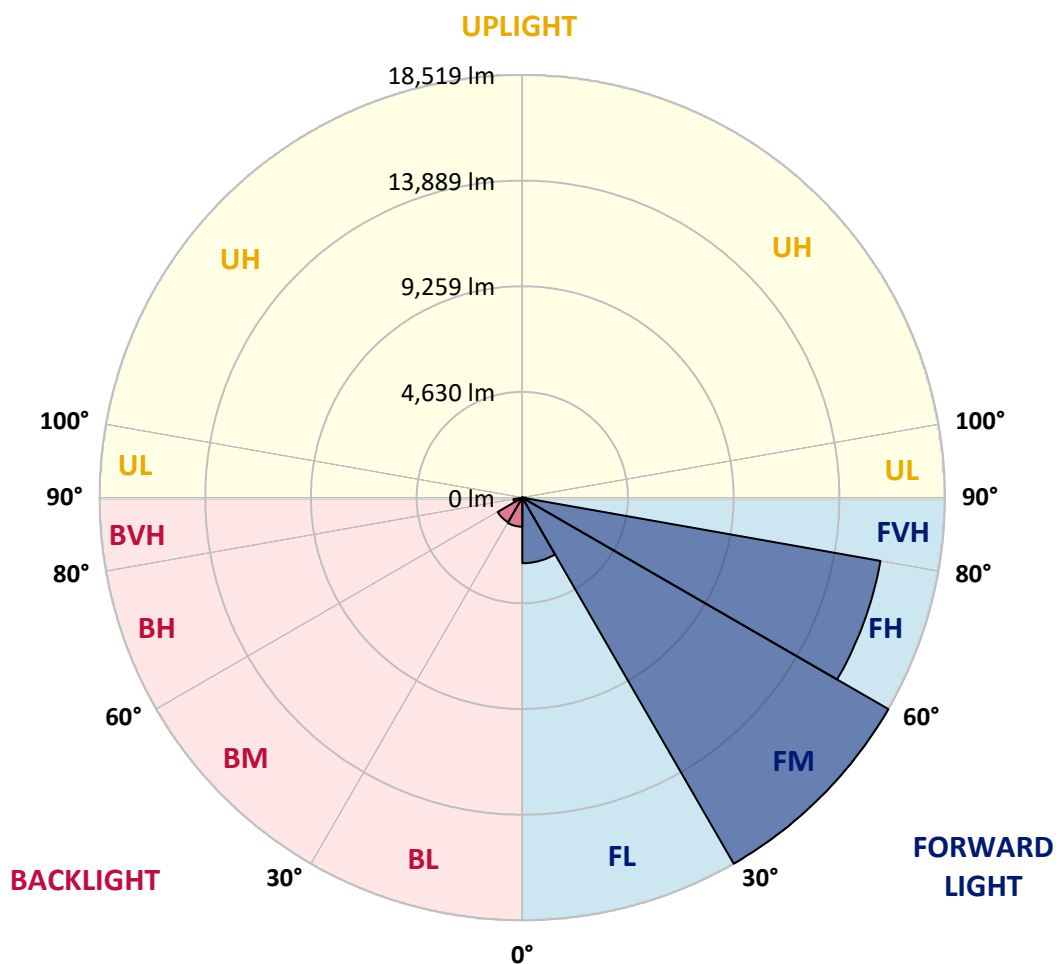
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2873.1	7.1			
FM	(30°-60°)	18518.5	45.9			
FH	(60°-80°)	15931.7	39.4			G5
FVH	(80°-90°)	147.8	0.4			G2/225
BL	(0°-30°)	1274.3	3.2	B3/2500		
BM	(30°-60°)	1244.7	3.1	B2/2500		
BH	(60°-80°)	395.8	1.0	B1/500		G1/500
BVH	(80°-90°)	2.1	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°	65°	75°	76°	85°
0°	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3
2.5°	7060.3	7063.2	7080.3	7123.1	7188.6	7242.8	7288.5	7362.6	7413.9	7419.6	7436.7
5°	6572.7	6538.5	6572.7	6683.9	6783.7	6934.9	7120.2	7305.6	7470.9	7482.4	7562.2
7.5°	6025.2	6053.7	6107.9	6222.0	6410.2	6641.2	6909.2	7240.0	7553.6	7582.2	7739.0
10°	5469.2	5531.9	5620.3	5794.3	6056.6	6356.0	6721.0	7194.4	7684.8	7724.7	7995.6
12.5°	4955.9	4984.4	5092.8	5326.6	5651.7	6073.7	6578.4	7168.7	7830.2	7878.7	8269.4
15°	4562.4	4599.5	4693.6	4904.6	5266.7	5808.5	6461.5	7160.1	7972.8	8041.2	8543.1
17.5°	4488.3	4511.1	4551.0	4693.6	5010.1	5597.5	6356.0	7157.3	8109.7	8192.4	8796.9
20°	4793.4	4773.4	4733.5	4719.2	4893.2	5435.0	6279.0	7180.1	8240.9	8335.0	9064.9
22.5°	5557.6	5583.3	5349.4	5072.8	5015.8	5409.3	6267.6	7288.5	8449.0	8560.2	9364.3
25°	7180.1	6983.3	6618.3	5956.8	5457.8	5566.1	6395.9	7545.1	8691.4	8814.0	9635.2
27.5°	8973.7	8913.8	8346.4	7257.1	6327.5	5896.9	6624.1	7741.8	8771.2	8896.7	9789.2
30°	10735.9	10807.2	10157.1	8953.7	7590.7	6510.0	6837.9	7816.0	8842.5	8973.7	9986.0
32.5°	12369.8	12455.4	11885.1	10693.2	9079.2	7570.8	7205.8	8104.0	9141.9	9276.0	10313.9
35°	13655.9	13667.3	13236.7	12287.1	10704.6	8859.6	8001.3	8608.7	9546.8	9703.7	10661.8
37.5°	14836.4	14819.3	14314.6	13496.2	12059.0	10140.0	9002.2	9190.4	10008.8	10171.3	11163.6
40°	15711.8	15723.2	15560.7	14790.8	13322.2	11323.3	9794.9	9735.0	10784.4	11038.2	11893.6
42.5°	16296.4	16401.9	16481.7	16091.1	14910.5	12780.5	11012.5	10901.3	12130.3	12341.3	12925.9
45°	16769.7	16957.9	17357.1	17337.2	16436.1	14568.3	12683.5	12455.4	14038.0	14263.2	14240.4
47.5°	17114.7	17305.8	17967.3	18366.6	17870.4	16302.1	14785.1	14588.3	16316.3	16561.6	15691.8
50°	17291.5	17519.7	18363.7	19136.5	18991.0	17973.0	17180.3	17191.7	19068.0	19304.7	17374.2
52.5°	16878.1	17174.6	18574.7	19966.3	20248.5	19572.7	19424.5	19800.9	21517.5	21719.9	18894.1
55°	15557.8	15931.4	18286.7	20673.4	21705.7	21460.4	21973.7	22546.9	24195.0	24326.2	20453.9
57.5°	14722.3	15118.7	17437.0	21275.1	23456.5	23832.9	24645.6	25064.7	26958.1	27291.8	22244.6
60°	14018.0	14328.8	16738.3	21403.4	25235.8	26735.7	27525.6	27959.0	30368.5	30585.3	24215.0
62.5°	12846.0	13202.5	15557.8	20508.0	26131.2	29059.7	30696.5	30502.6	33006.2	33157.3	25424.0
65°	10961.2	10992.6	13162.6	18258.2	25207.3	30568.2	32923.5	32110.8	34266.6	34369.2	25329.9
67.5°	8181.0	8483.2	10125.7	14351.6	21292.2	29279.3	33644.9	32153.6	33471.0	33185.8	23319.6
70°	5269.6	5500.6	6863.6	9951.8	15352.5	24434.6	31252.5	29949.4	29376.2	28743.2	19088.0
72.5°	2432.3	2728.9	4077.7	5685.9	9104.9	17405.6	25369.9	24331.9	21143.9	19581.3	12133.2
75°	1060.8	1134.9	2013.2	2999.8	4268.7	9204.7	16726.9	15104.4	9549.7	8722.8	4856.1
77.5°	647.3	695.8	1055.1	1608.2	1676.7	3507.4	9010.8	6589.8	2951.3	2603.4	1317.4
80°	439.1	493.3	767.1	841.2	573.2	978.1	3381.9	1759.4	596.0	570.3	282.3
82.5°	213.9	270.9	567.4	470.5	248.1	313.7	983.8	376.4	173.9	162.5	99.8
85°	31.4	54.2	319.4	308.0	111.2	74.1	173.9	94.1	59.9	57.0	45.6
87.5°	0.0	0.0	108.4	48.5	11.4	11.4	20.0	20.0	22.8	20.0	22.8
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°	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3	7388.3
2.5°	7445.3	7459.5	7405.4	7328.4	7245.7	7163.0	7046.1	6940.6	6877.8	6914.9	6823.7
5°	7579.3	7567.9	7425.3	7191.5	6880.7	6507.1	6136.4	5819.9	5717.3	5563.3	5546.2
7.5°	7764.7	7733.3	7431.0	6894.9	6193.5	5492.0	4807.6	4354.3	4094.8	3875.2	3880.9
10°	8024.1	7932.9	7365.4	6373.1	5218.3	4160.3	3287.8	2689.0	2429.5	2346.8	2281.2
12.5°	8292.2	8115.4	7182.9	5668.8	4063.4	2843.0	1998.9	1633.9	1474.2	1422.9	1417.2
15°	8531.7	8252.3	6863.6	4821.9	2954.2	1816.4	1363.0	1243.3	1223.3	1226.1	1223.3
17.5°	8768.4	8360.6	6421.6	3923.7	2007.5	1303.1	1172.0	1143.5	1152.0	1163.4	1160.6
20°	8965.1	8383.4	5857.0	2994.1	1420.1	1143.5	1100.7	1095.0	1103.5	1112.1	1112.1
22.5°	9179.0	8400.5	5186.9	2073.0	1160.6	1063.6	1040.8	1040.8	1052.2	1063.6	1066.5
25°	9338.7	8306.4	4385.6	1488.5	1023.7	986.6	975.2	978.1	989.5	995.2	992.3
27.5°	9364.3	8041.2	3535.9	1140.6	929.6	892.5	881.1	892.5	878.3	886.8	881.1
30°	9387.2	7704.8	2674.7	961.0	844.0	787.0	769.9	752.8	741.4	727.1	724.3
32.5°	9458.4	7308.4	1953.3	864.0	764.2	701.5	661.5	613.1	576.0	564.6	561.7
35°	9489.8	6832.2	1434.3	787.0	692.9	624.5	553.2	484.8	430.6	410.6	424.9
37.5°	9609.6	6370.3	1112.1	730.0	630.2	544.6	453.4	367.8	316.5	305.1	310.8
40°	9854.8	5868.4	932.4	681.5	576.0	470.5	359.3	276.6	242.4	231.0	228.1
42.5°	10248.3	5369.4	829.8	635.9	521.8	396.4	282.3	216.7	188.2	179.6	179.6
45°	10727.4	4890.3	758.5	587.4	464.8	319.4	222.4	173.9	156.8	151.1	151.1
47.5°	11357.6	4471.2	698.6	538.9	402.1	253.8	179.6	151.1	139.7	142.6	145.4
50°	11996.3	4160.3	633.0	484.8	330.8	208.2	154.0	134.0	131.2	134.0	134.0
52.5°	12478.2	3977.9	544.6	410.6	259.5	173.9	136.9	125.5	122.6	116.9	116.9
55°	13128.3	3937.9	433.4	333.6	205.3	145.4	122.6	114.1	105.5	99.8	97.0
57.5°	13963.8	3983.6	333.6	259.5	159.7	119.8	108.4	94.1	82.7	71.3	71.3
60°	14482.8	3880.9	259.5	199.6	116.9	97.0	82.7	68.4	54.2	45.6	42.8
62.5°	14317.4	3447.5	205.3	148.3	82.7	71.3	54.2	45.6	31.4	22.8	20.0
65°	13464.8	2783.1	165.4	102.7	59.9	42.8	28.5	28.5	14.3	2.9	0.0
67.5°	11785.3	2061.6	131.2	68.4	34.2	20.0	14.3	8.6	0.0	0.0	0.0
70°	9592.5	1488.5	102.7	42.8	20.0	14.3	5.7	2.9	0.0	0.0	0.0
72.5°	6090.8	852.6	79.8	25.7	14.3	5.7	0.0	0.0	0.0	0.0	0.0
75°	2355.3	333.6	54.2	17.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	667.3	156.8	31.4	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	173.9	68.4	17.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	82.7	28.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	48.5	11.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.8	2.9	0.0	0.0	0.0	0.0	0.0	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)