

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: P456970

Luminaire Tested: **GALN-SA8B-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456970
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-SA8B-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 32763 lumens
Efficiency: N/A
Efficacy: 100.8 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

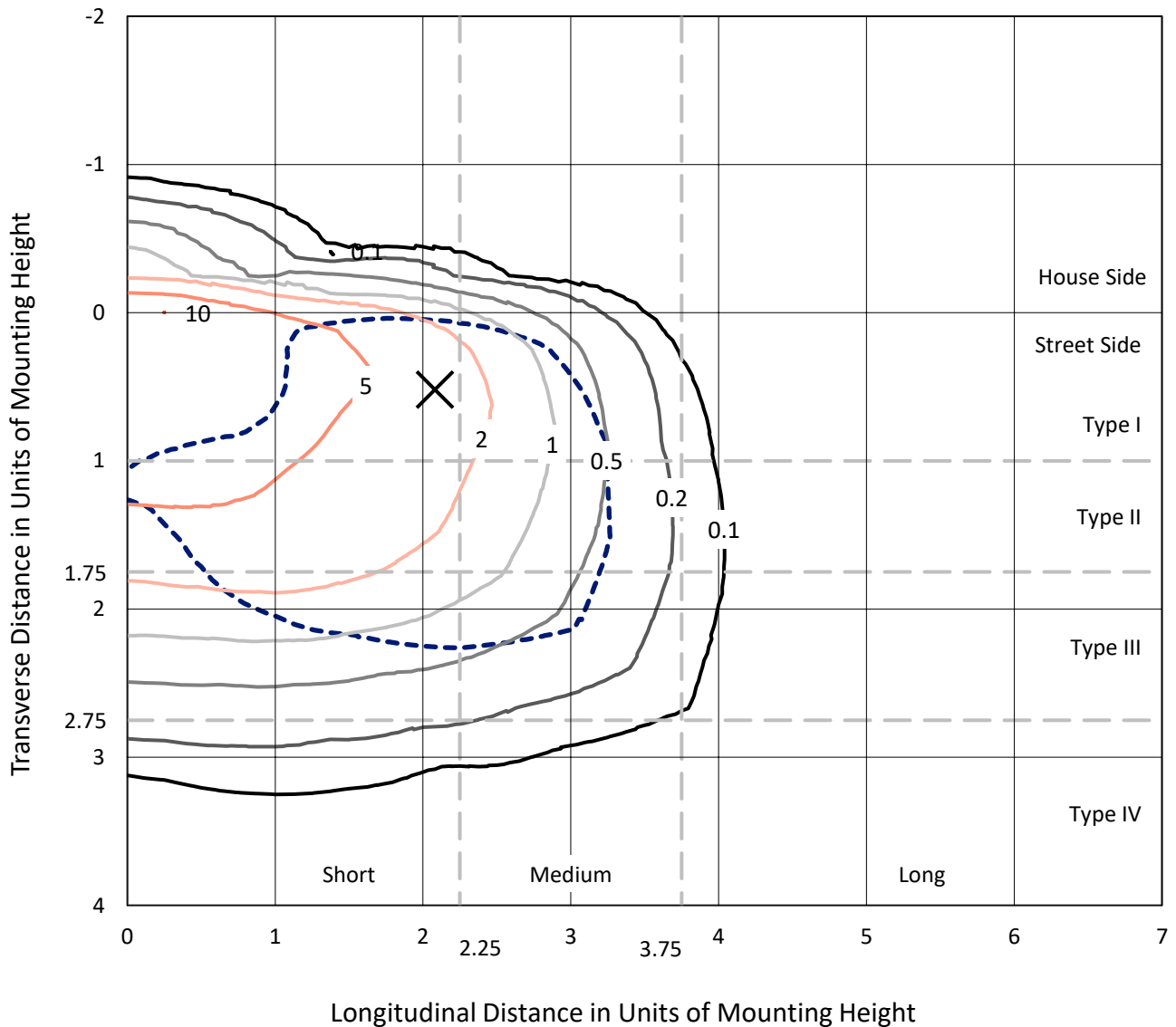
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

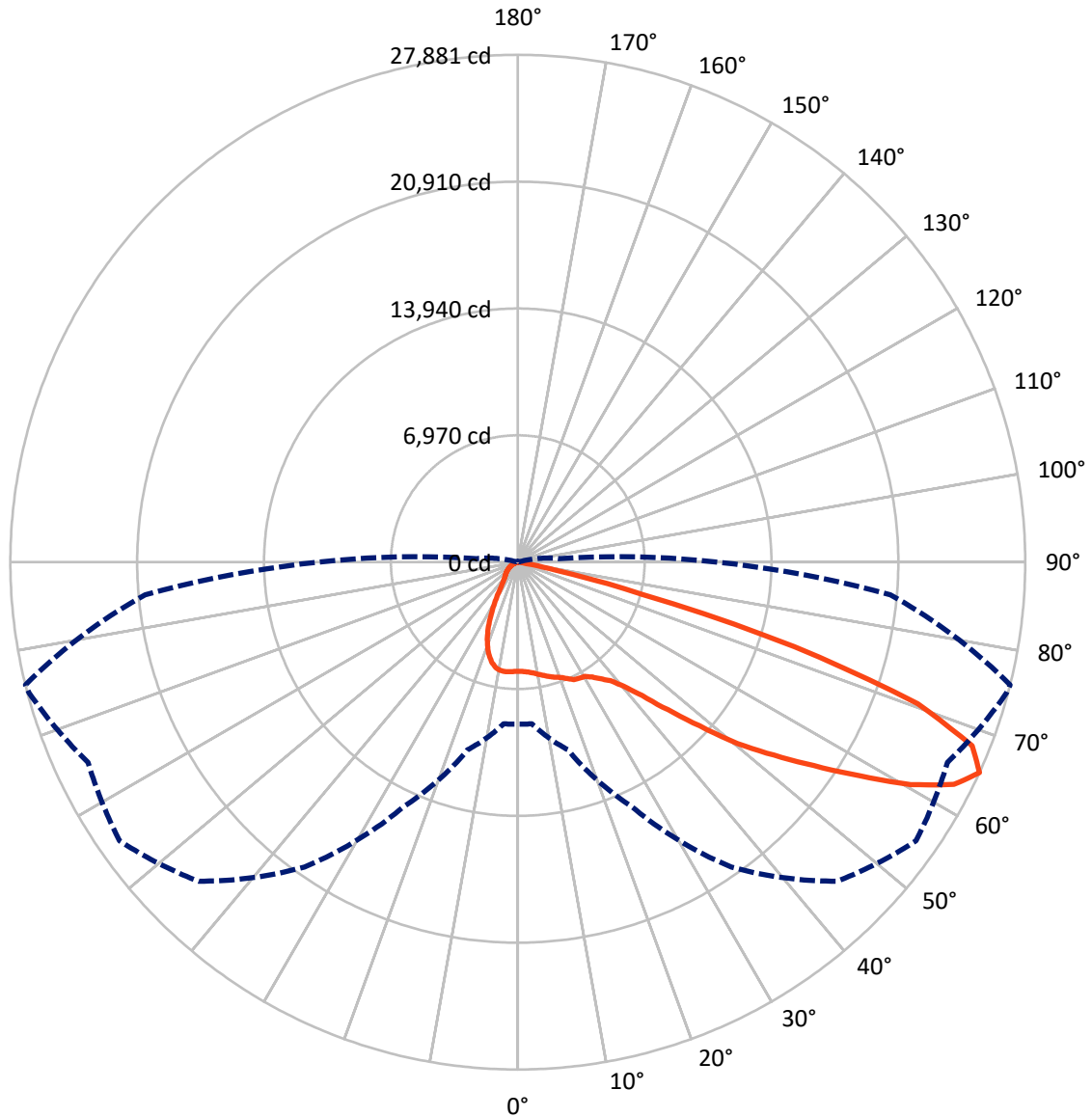
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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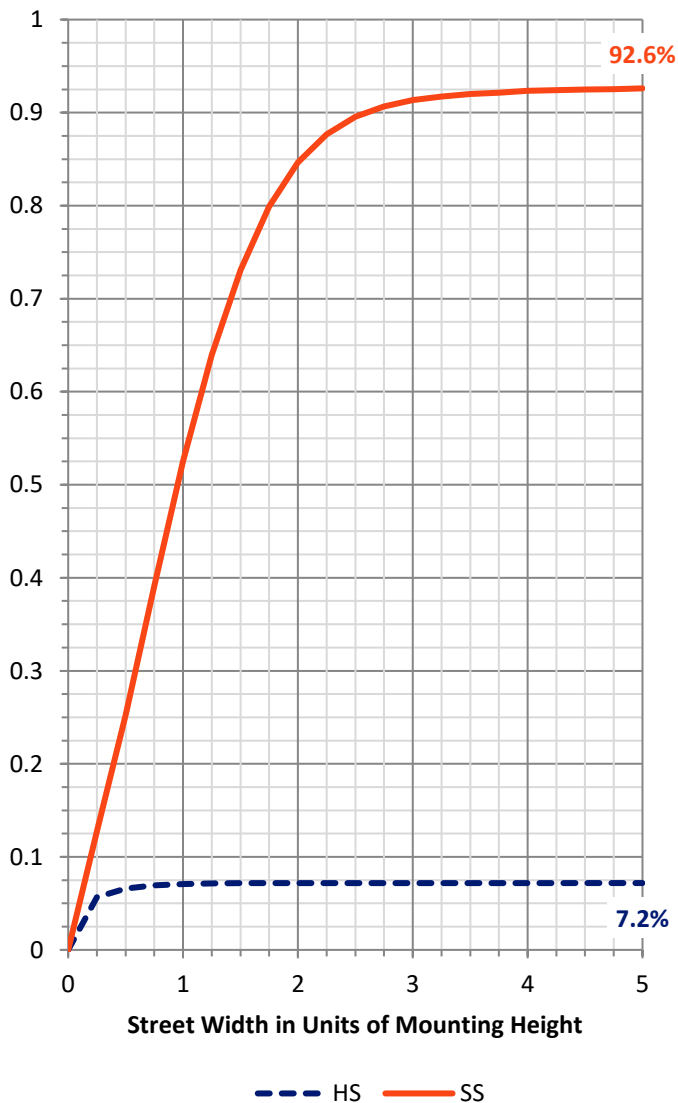
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2366.1	0.0	2366.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	30396.9	0.0	30396.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	32763.0	0.0	32763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.7	1.5
10°-20°	1099.3	3.4
20°-30°	1771.4	5.4
30°-40°	3080.1	9.4
40°-50°	5089.6	15.5
50°-60°	7862.4	24.0
60°-70°	9601.1	29.3
70°-80°	3643.9	11.1
80°-90°	121.6	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°	32763.0	100.0
0°-180°	32763.0	100.0

Coefficient of Utilization



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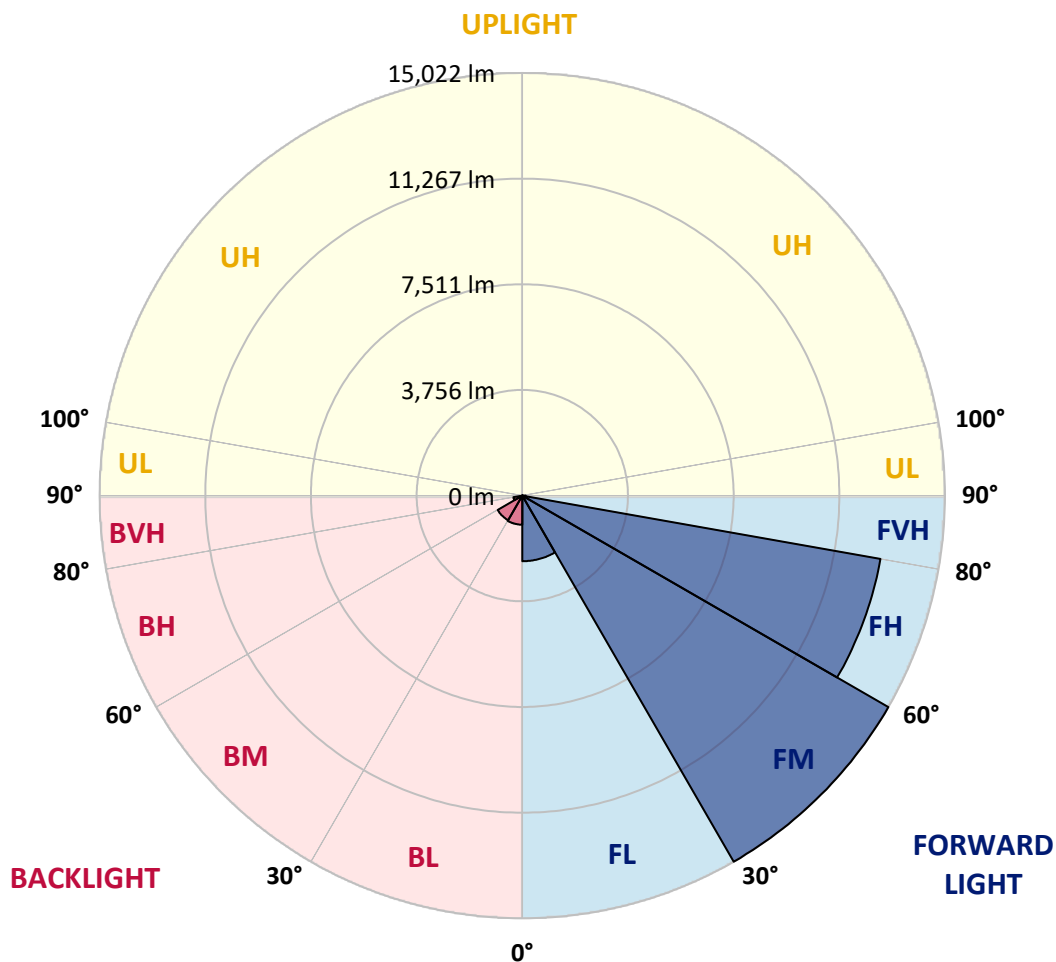
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2330.7	7.1			
FM	(30°-60°)	15022.3	45.9			
FH	(60°-80°)	12923.9	39.4			G5
FVH	(80°-90°)	119.9	0.4			G2/225
BL	(0°-30°)	1033.7	3.2	B3/2500		
BM	(30°-60°)	1009.7	3.1	B2/2500		
BH	(60°-80°)	321.1	1.0	B1/500		G1/500
BVH	(80°-90°)	1.7	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°	5993.4	5993.4	5993.4	5993.4	5993.4	5993.4	5993.4	5993.4	5993.4	5993.4	5993.4
2.5°	5727.4	5729.7	5743.6	5778.3	5831.5	5875.4	5912.4	5972.6	6014.2	6018.8	6032.7
5°	5331.8	5304.1	5331.8	5422.0	5503.0	5625.6	5776.0	5926.3	6060.5	6069.7	6134.5
7.5°	4887.7	4910.8	4954.8	5047.3	5200.0	5387.4	5604.8	5873.1	6127.6	6150.7	6277.9
10°	4436.6	4487.5	4559.2	4700.3	4913.2	5156.0	5452.1	5836.1	6234.0	6266.4	6486.1
12.5°	4020.3	4043.4	4131.3	4321.0	4584.7	4927.0	5336.5	5815.3	6351.9	6391.3	6708.2
15°	3701.1	3731.1	3807.5	3978.6	4272.4	4711.9	5241.6	5808.3	6467.6	6523.1	6930.2
17.5°	3640.9	3659.4	3691.8	3807.5	4064.2	4540.7	5156.0	5806.0	6578.6	6645.7	7136.1
20°	3888.4	3872.2	3839.8	3828.3	3969.4	4408.9	5093.6	5824.5	6685.0	6761.4	7353.5
22.5°	4508.3	4529.2	4339.5	4115.1	4068.8	4388.1	5084.3	5912.4	6853.9	6944.1	7596.4
25°	5824.5	5664.9	5368.8	4832.2	4427.4	4515.3	5188.4	6120.6	7050.5	7150.0	7816.2
27.5°	7279.5	7230.9	6770.6	5887.0	5132.9	4783.6	5373.5	6280.2	7115.3	7217.1	7941.1
30°	8709.0	8766.9	8239.5	7263.3	6157.6	5280.9	5547.0	6340.4	7173.1	7279.5	8100.7
32.5°	10034.5	10103.9	9641.3	8674.4	7365.1	6141.4	5845.4	6574.0	7416.0	7524.7	8366.7
35°	11077.7	11087.0	10737.7	9967.4	8683.6	7187.0	6490.7	6983.4	7744.5	7871.7	8648.9
37.5°	12035.4	12021.5	11612.1	10948.2	9782.4	8225.6	7302.6	7455.3	8119.2	8251.0	9056.0
40°	12745.5	12754.8	12622.9	11998.4	10807.1	9185.6	7945.7	7897.1	8748.4	8954.2	9648.2
42.5°	13219.7	13305.3	13370.1	13053.2	12095.5	10367.6	8933.4	8843.2	9840.2	10011.4	10485.6
45°	13603.7	13756.4	14080.2	14064.0	13333.1	11817.9	10288.9	10103.9	11387.7	11570.4	11551.9
47.5°	13883.6	14038.6	14575.2	14899.1	14496.6	13224.3	11993.7	11834.1	13235.9	13434.8	12729.3
50°	14027.0	14212.1	14896.8	15523.6	15405.6	14579.8	13936.8	13946.0	15468.1	15660.1	14094.1
52.5°	13691.6	13932.2	15067.9	16196.7	16425.8	15877.5	15757.2	16062.6	17455.1	17619.3	15327.0
55°	12620.6	12923.6	14834.3	16770.4	17607.8	17408.8	17825.2	18290.2	19627.2	19733.6	16592.3
57.5°	11942.8	12264.4	14145.0	17258.5	19028.1	19333.4	19992.6	20332.7	21868.6	22139.3	18045.0
60°	11371.5	11623.6	13578.3	17362.6	20471.5	21688.2	22328.9	22680.5	24635.2	24811.0	19643.4
62.5°	10420.8	10709.9	12620.6	16636.2	21197.8	23573.4	24901.2	24743.9	26774.8	26897.4	20624.1
65°	8891.8	8917.2	10677.5	14811.2	20448.3	24797.1	26707.7	26048.5	27797.2	27880.5	20547.8
67.5°	6636.5	6881.7	8214.0	11642.1	17272.4	23751.5	27293.0	26083.2	27151.9	26920.6	18917.0
70°	4274.7	4462.1	5567.8	8072.9	12454.1	19821.5	25352.2	24295.1	23830.2	23316.7	15484.3
72.5°	1973.1	2213.7	3307.8	4612.4	7385.9	14119.5	20580.2	19738.2	17152.1	15884.5	9842.5
75°	860.5	920.6	1633.1	2433.4	3462.8	7466.9	13569.0	12252.8	7746.8	7076.0	3939.3
77.5°	525.1	564.4	855.9	1304.6	1360.1	2845.2	7309.6	5345.7	2394.1	2111.9	1068.7
80°	356.2	400.2	622.2	682.4	464.9	793.4	2743.4	1427.2	483.5	462.6	229.0
82.5°	173.5	219.8	460.3	381.7	201.2	254.4	798.0	305.3	141.1	131.9	81.0
85°	25.4	44.0	259.1	249.8	90.2	60.1	141.1	76.3	48.6	46.3	37.0
87.5°	0.0	0.0	87.9	39.3	9.3	9.3	16.2	16.2	18.5	16.2	18.5
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°	5993.4	5993.4	5993.4	5993.4	5993.4	5993.4	5993.4	5993.4	5993.4	5993.4	5993.4
2.5°	6039.7	6051.2	6007.3	5944.8	5877.7	5810.7	5715.8	5630.2	5579.3	5609.4	5535.4
5°	6148.4	6139.1	6023.5	5833.8	5581.7	5278.6	4977.9	4721.2	4637.9	4513.0	4499.1
7.5°	6298.7	6273.3	6028.1	5593.2	5024.2	4455.1	3900.0	3532.2	3321.7	3143.6	3148.2
10°	6509.2	6435.2	5974.9	5169.9	4233.1	3374.9	2667.1	2181.3	1970.8	1903.7	1850.5
12.5°	6726.7	6583.3	5826.9	4598.6	3296.3	2306.2	1621.5	1325.4	1195.9	1154.3	1149.6
15°	6921.0	6694.3	5567.8	3911.6	2396.4	1473.5	1105.7	1008.5	992.3	994.7	992.3
17.5°	7113.0	6782.2	5209.2	3182.9	1628.5	1057.1	950.7	927.6	934.5	943.8	941.5
20°	7272.6	6800.7	4751.2	2428.8	1152.0	927.6	892.9	888.3	895.2	902.1	902.1
22.5°	7446.1	6814.6	4207.6	1681.7	941.5	862.8	844.3	844.3	853.6	862.8	865.1
25°	7575.6	6738.2	3557.6	1207.5	830.4	800.4	791.1	793.4	802.7	807.3	805.0
27.5°	7596.4	6523.1	2868.3	925.3	754.1	724.0	714.8	724.0	712.5	719.4	714.8
30°	7614.9	6250.2	2169.7	779.5	684.7	638.4	624.6	610.7	601.4	589.9	587.5
32.5°	7672.8	5928.6	1584.5	700.9	619.9	569.0	536.7	497.3	467.3	458.0	455.7
35°	7698.2	5542.3	1163.5	638.4	562.1	506.6	448.8	393.2	349.3	333.1	344.7
37.5°	7795.4	5167.6	902.1	592.2	511.2	441.8	367.8	298.4	256.8	247.5	252.1
40°	7994.3	4760.5	756.4	552.8	467.3	381.7	291.5	224.4	196.6	187.4	185.1
42.5°	8313.5	4355.7	673.1	515.8	423.3	321.5	229.0	175.8	152.7	145.7	145.7
45°	8702.1	3967.1	615.3	476.5	377.0	259.1	180.4	141.1	127.2	122.6	122.6
47.5°	9213.3	3627.0	566.7	437.2	326.2	205.9	145.7	122.6	113.3	115.7	118.0
50°	9731.5	3374.9	513.5	393.2	268.3	168.9	124.9	108.7	106.4	108.7	108.7
52.5°	10122.4	3226.9	441.8	333.1	210.5	141.1	111.0	101.8	99.5	94.8	94.8
55°	10649.8	3194.5	351.6	270.6	166.5	118.0	99.5	92.5	85.6	81.0	78.6
57.5°	11327.5	3231.5	270.6	210.5	129.5	97.2	87.9	76.3	67.1	57.8	57.8
60°	11748.5	3148.2	210.5	161.9	94.8	78.6	67.1	55.5	44.0	37.0	34.7
62.5°	11614.4	2796.6	166.5	120.3	67.1	57.8	44.0	37.0	25.4	18.5	16.2
65°	10922.7	2257.6	134.2	83.3	48.6	34.7	23.1	23.1	11.6	2.3	0.0
67.5°	9560.3	1672.4	106.4	55.5	27.8	16.2	11.6	6.9	0.0	0.0	0.0
70°	7781.5	1207.5	83.3	34.7	16.2	11.6	4.6	2.3	0.0	0.0	0.0
72.5°	4940.9	691.6	64.8	20.8	11.6	4.6	0.0	0.0	0.0	0.0	0.0
75°	1910.7	270.6	44.0	13.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	541.3	127.2	25.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	141.1	55.5	13.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	67.1	23.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.3	9.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.5	2.3	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)