

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: P458893

Luminaire Tested: **GALN-SA4B-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458893
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-SA4B-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 17180 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

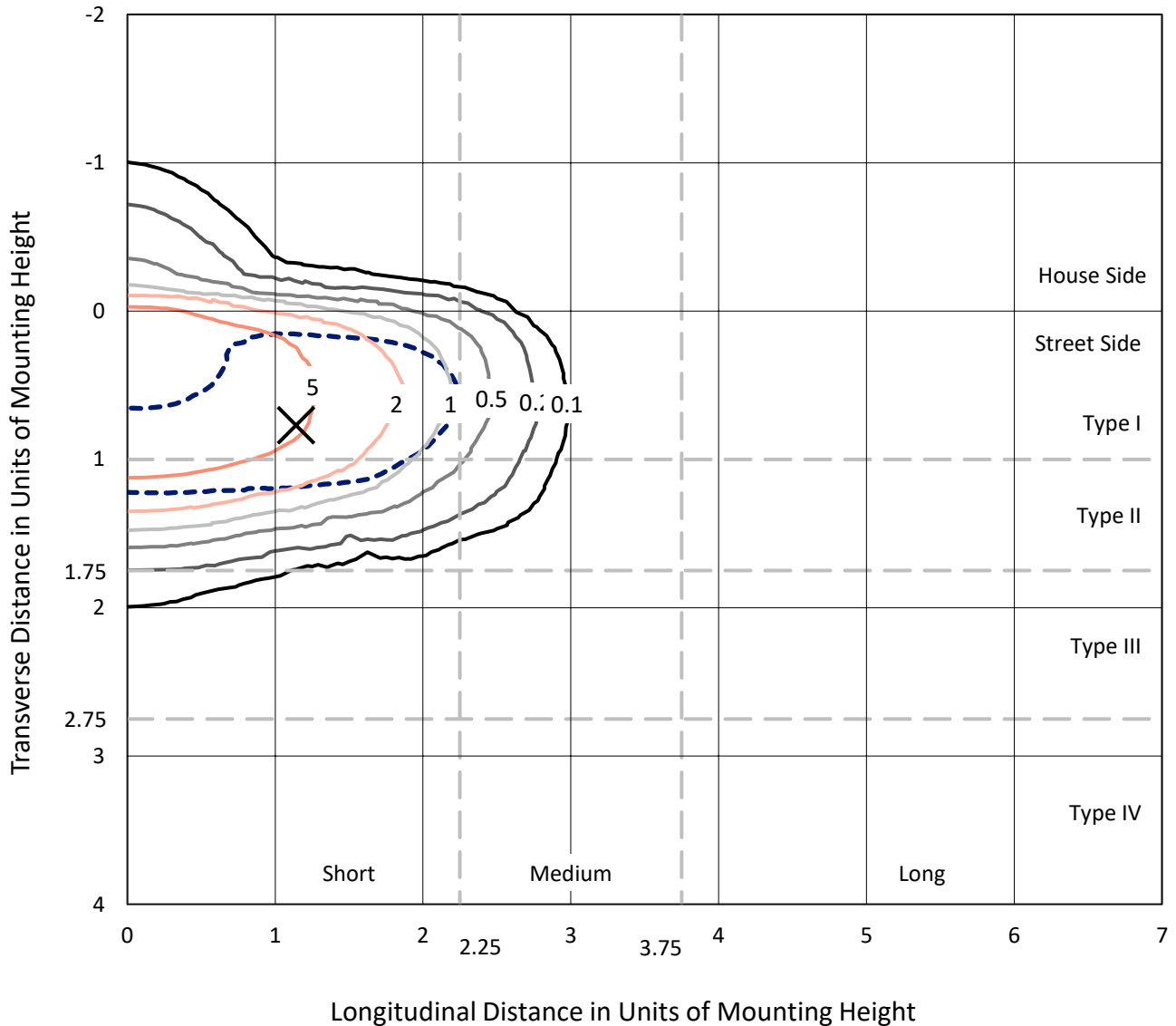
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

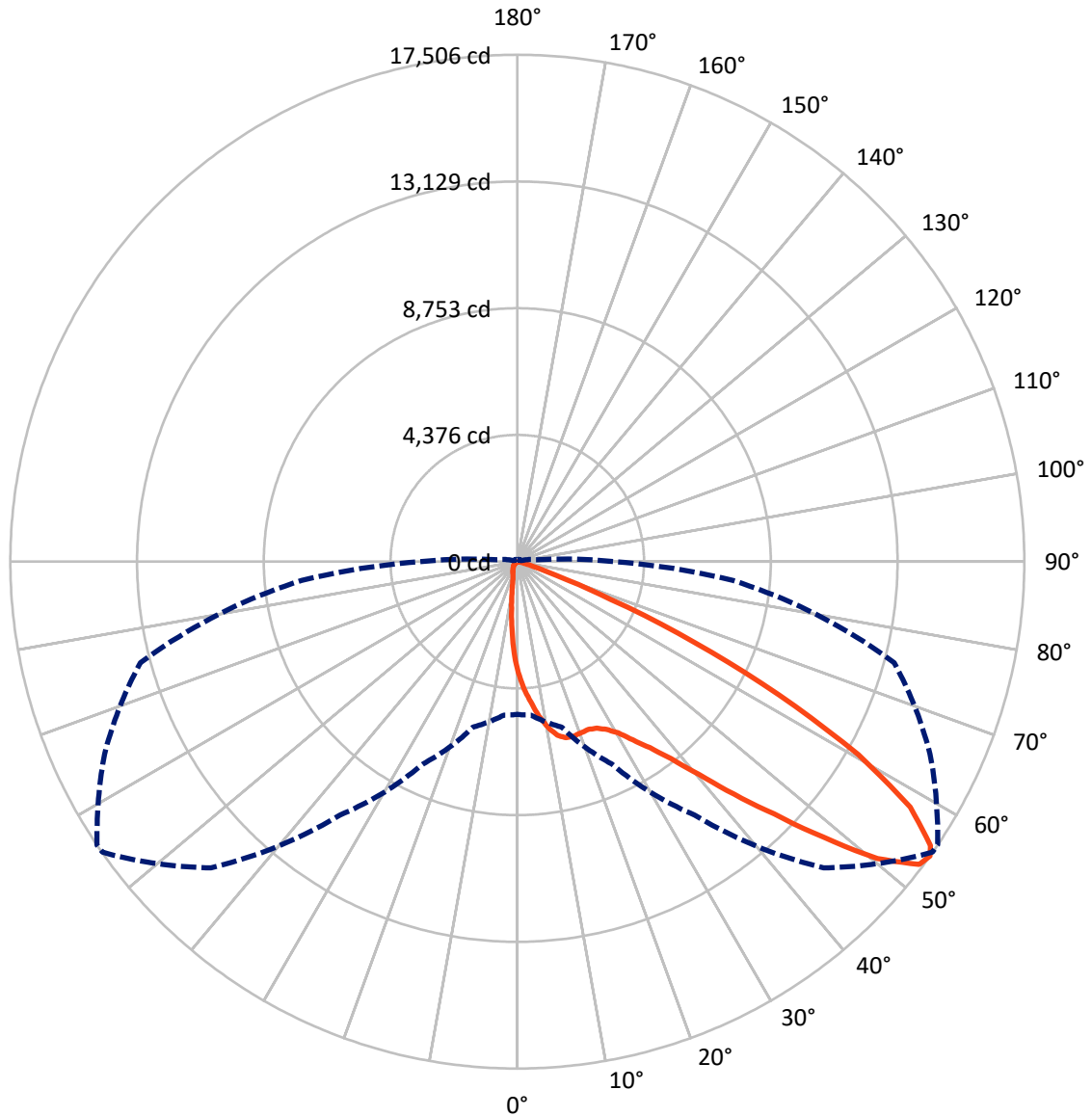
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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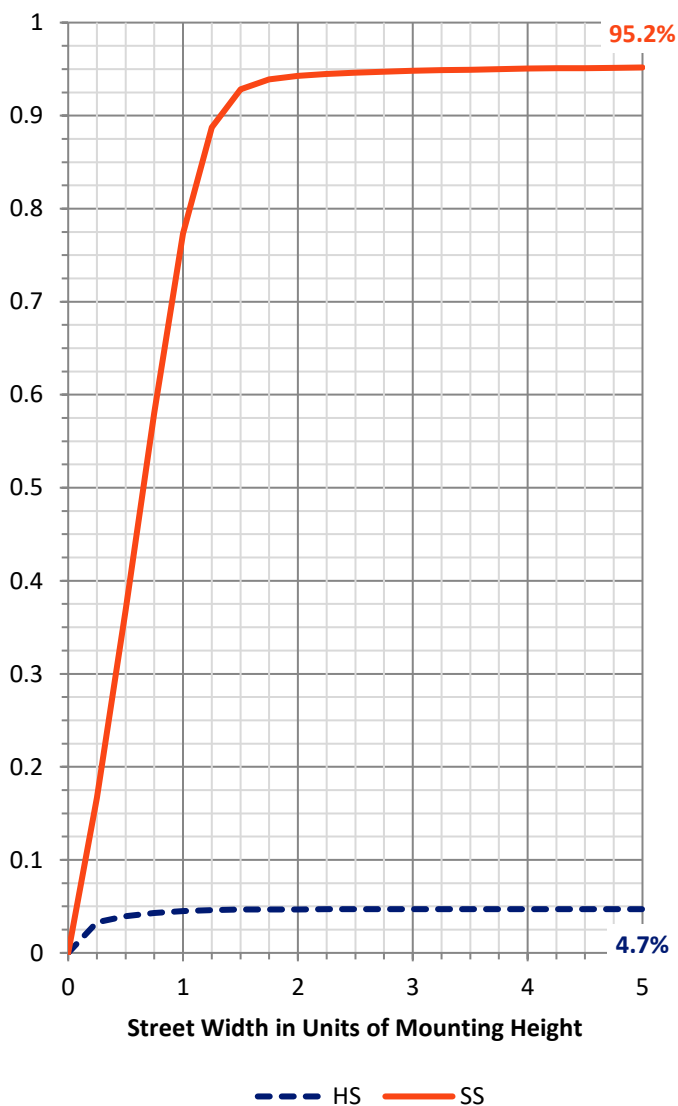
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	812.4	0.0	812.4
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	16367.6	0.0	16367.6
	% Fixture	95.3	0.0	95.3
Total	Lumens	17180.0	0.0	17180.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.3	2.0
10°-20°	911.8	5.3
20°-30°	1579.1	9.2
30°-40°	2725.9	15.9
40°-50°	4639.5	27.0
50°-60°	4591.4	26.7
60°-70°	2095.6	12.2
70°-80°	269.1	1.6
80°-90°	30.3	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°	17180.0	100.0
0°-180°	17180.0	100.0

Coefficient of Utilization



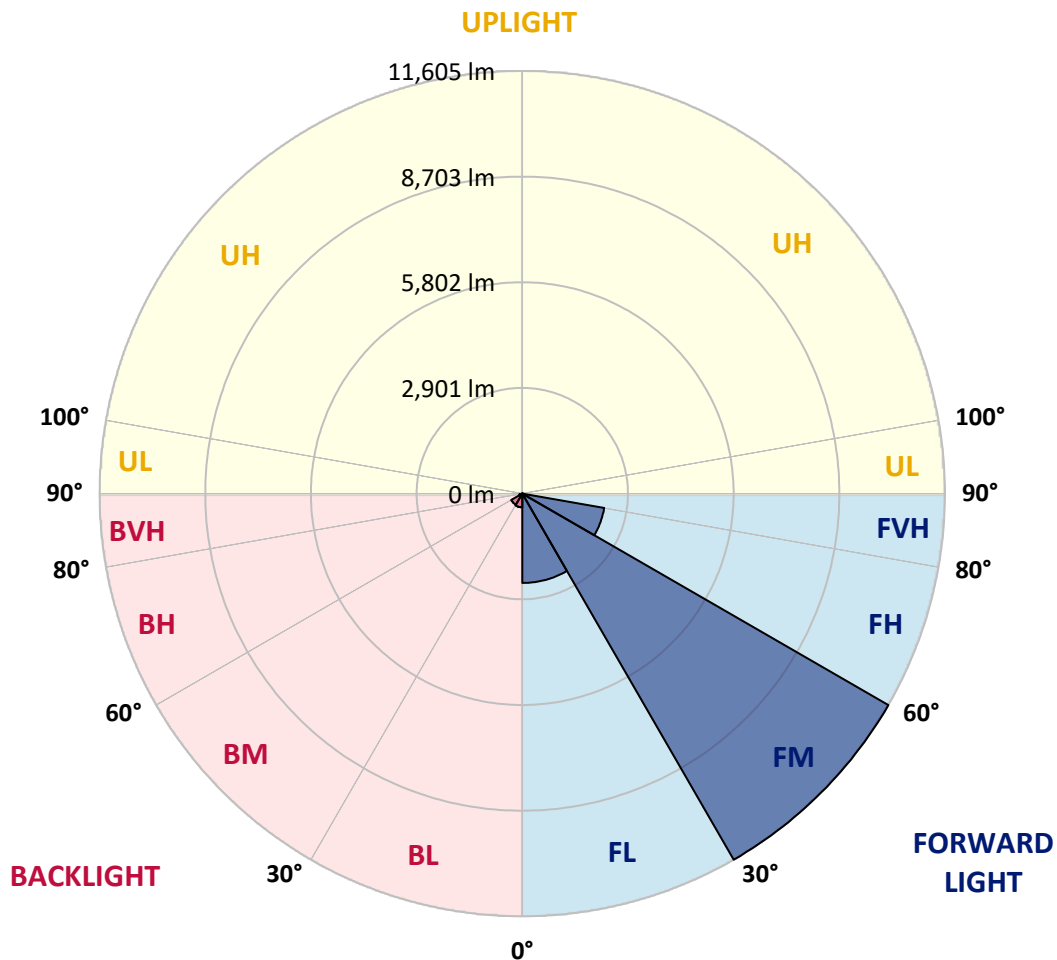
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2452.5	14.3			
FM (30°-60°)	11604.6	67.5			
FH (60°-80°)	2283.4	13.3			G2/5000
FVH (80°-90°)	27.1	0.2			G1/100
BL (0°-30°)	375.7	2.2	B1/500		
BM (30°-60°)	352.1	2.0	B1/1000		
BH (60°-80°)	81.4	0.5	B0/110		G0/110
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3816.9	3816.9	3816.9	3816.9	3816.9	3816.9	3816.9	3816.9	3816.9	3816.9	3816.9
2.5°	4850.8	4817.2	4770.8	4734.9	4650.3	4528.6	4399.9	4399.9	4275.9	4103.2	3927.0
5°	5595.0	5572.9	5527.7	5435.0	5340.0	5169.6	4911.1	4865.9	4644.5	4331.5	4002.4
7.5°	5897.5	5907.9	5910.2	5885.9	5840.7	5672.6	5416.5	5385.2	5031.6	4612.0	4100.9
10°	5607.7	5658.7	5708.5	5809.4	5952.0	5992.5	5847.6	5815.2	5467.5	4896.0	4207.5
12.5°	5176.5	5204.3	5232.2	5391.0	5677.3	6005.3	6157.1	6156.0	5861.5	5178.8	4343.1
15°	4976.0	5000.3	5002.7	5073.4	5321.4	5799.0	6289.3	6306.6	6246.4	5527.7	4489.2
17.5°	5017.7	5037.4	5021.2	5038.6	5168.4	5571.8	6274.2	6332.1	6558.2	5862.7	4621.3
20°	5290.1	5328.4	5265.8	5217.1	5256.5	5511.5	6223.2	6304.3	6778.4	6189.6	4741.9
22.5°	5779.3	5800.1	5721.3	5588.0	5518.5	5637.8	6209.3	6289.3	6966.2	6457.3	4811.4
25°	6322.9	6315.9	6229.0	6079.5	5933.4	5892.8	6300.8	6372.7	7121.5	6698.4	4832.3
27.5°	6866.5	6887.3	6741.3	6555.8	6380.8	6275.3	6506.0	6559.3	7296.5	6973.1	4857.8
30°	7498.2	7464.6	7320.8	7108.7	6908.2	6761.0	6836.3	6851.4	7537.6	7337.1	4925.0
32.5°	8320.0	8227.3	8066.1	7695.2	7551.5	7302.3	7320.8	7339.4	7830.9	7697.6	5006.1
35°	9435.0	9430.4	9115.1	8615.6	8265.5	7956.0	7874.9	7890.0	8274.8	8233.1	5185.8
37.5°	10777.3	10795.8	10436.5	9933.5	9289.0	8797.5	8630.6	8632.9	8949.4	8972.6	5459.3
40°	11870.3	11919.0	11704.5	11364.9	10728.6	9960.1	9679.6	9654.1	9897.5	9868.5	5850.0
42.5°	12340.9	12386.1	12466.1	12584.3	12234.3	11600.2	10938.4	10973.2	11047.3	10844.5	6288.1
45°	12110.2	12182.1	12496.2	13226.4	13555.6	13342.4	12553.0	12431.3	12117.2	11905.1	6728.6
47.5°	11149.3	11324.4	11849.4	13065.3	14217.5	14938.4	14375.1	14214.0	13188.2	12679.3	7009.1
50°	9569.5	9579.9	10311.3	11865.7	13874.4	15945.7	16235.5	16114.9	14186.2	13114.0	7150.5
52.5°	6937.2	7165.5	7835.5	9635.6	12388.4	15792.7	17421.2	17371.4	15215.4	13336.6	7354.5
54°	5273.9	5317.9	5913.7	7699.9	10681.1	14952.3	17494.2	17505.8	15726.6	13471.0	7475.0
55°	4323.4	4217.9	4843.9	6559.3	9516.2	14209.4	17255.5	17311.1	15956.1	13540.6	7564.3
57.5°	2049.3	2050.4	2529.1	3459.9	5960.1	11033.4	15796.2	15993.2	15981.6	13659.9	7839.0
60°	1037.4	1044.3	1149.8	1597.2	2944.1	7334.8	13060.7	13530.1	14751.8	13677.3	7929.4
62.5°	725.6	717.5	700.1	768.5	1239.1	3727.7	9723.7	10131.7	12533.3	13015.5	7641.9
65°	621.3	603.9	555.2	544.8	625.9	1484.8	6056.3	6721.6	9569.5	11269.9	6823.6
67.5°	530.9	523.9	479.9	453.2	442.8	646.8	3124.9	3475.0	6540.8	8100.9	5168.4
70°	450.9	447.4	420.8	387.1	358.2	387.1	1159.1	1436.1	3645.4	4361.7	2438.7
72.5°	366.3	369.8	374.4	331.5	301.4	274.7	494.9	576.1	1525.4	1559.0	853.1
75°	321.1	317.6	317.6	288.6	251.5	204.0	272.4	293.3	467.1	433.5	198.2
77.5°	226.0	217.9	255.0	237.6	209.8	144.9	155.3	164.6	193.6	165.8	92.7
80°	156.5	156.5	163.4	213.3	188.9	105.5	95.0	102.0	114.8	98.5	53.3
82.5°	88.1	90.4	106.6	113.6	110.1	70.7	62.6	63.8	76.5	67.2	33.6
85°	10.4	17.4	61.4	60.3	45.2	31.3	34.8	35.9	47.5	41.7	19.7
87.5°	1.2	2.3	12.8	16.2	11.6	12.8	12.8	12.8	16.2	18.5	13.9
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°	3816.9	3816.9	3816.9	3816.9	3816.9	3816.9	3816.9	3816.9	3816.9	3816.9	3816.9
2.5°	3832.0	3743.9	3534.1	3290.7	3135.4	2882.7	2669.4	2515.2	2477.0	2402.8	2424.8
5°	3827.3	3644.2	3216.5	2764.4	2282.3	1922.9	1655.2	1444.2	1351.5	1290.1	1247.2
7.5°	3829.7	3543.4	2857.2	2137.4	1561.3	1208.9	960.9	832.2	746.5	710.5	715.2
10°	3836.6	3429.8	2439.9	1583.3	1053.6	781.2	629.4	568.0	539.0	534.3	533.2
12.5°	3852.8	3305.7	2041.2	1175.3	737.2	568.0	510.0	489.1	479.9	479.9	476.4
15°	3870.2	3169.0	1709.7	874.0	568.0	488.0	461.3	450.9	445.1	445.1	443.9
17.5°	3870.2	3011.3	1400.2	678.1	489.1	448.6	427.7	413.8	409.2	409.2	408.0
20°	3845.9	2828.2	1125.5	545.9	443.9	411.5	390.6	375.5	369.8	367.4	366.3
22.5°	3761.3	2583.6	896.0	469.4	406.8	379.0	352.4	335.0	330.3	328.0	329.2
25°	3610.6	2307.8	709.4	412.6	373.2	339.6	316.4	303.7	299.0	299.0	300.2
27.5°	3455.3	2019.1	562.2	369.8	332.7	302.5	284.0	275.9	274.7	278.2	279.3
30°	3311.5	1729.4	455.5	335.0	296.7	271.2	258.5	256.2	256.2	257.3	258.5
32.5°	3151.6	1475.5	381.3	304.8	267.8	245.7	238.8	238.8	241.1	241.1	243.4
35°	3050.7	1257.6	335.0	275.9	245.7	227.2	222.5	223.7	227.2	231.8	234.1
37.5°	2996.3	1083.8	304.8	252.7	224.9	212.1	207.5	209.8	217.9	226.0	227.2
40°	3000.9	952.8	280.5	233.0	208.6	194.7	191.3	198.2	206.3	214.4	215.6
42.5°	3051.9	855.4	257.3	209.8	194.7	175.0	173.9	180.8	184.3	192.4	193.6
45°	3112.2	784.7	233.0	185.5	169.2	151.8	153.0	158.8	163.4	176.2	178.5
47.5°	3130.7	736.0	205.2	157.6	139.1	133.3	134.5	137.9	147.2	158.8	160.0
50°	3151.6	705.9	178.5	133.3	118.2	117.1	118.2	120.5	126.3	131.0	129.8
52.5°	3240.8	704.7	156.5	115.9	100.8	103.2	104.3	103.2	98.5	91.6	89.3
54°	3324.3	708.2	146.0	107.8	92.7	96.2	95.0	89.3	77.7	70.7	67.2
55°	3391.5	711.7	140.3	102.0	88.1	89.3	90.4	78.8	63.8	56.8	54.5
57.5°	3523.7	703.6	126.3	89.3	77.7	73.0	71.9	52.2	34.8	30.1	27.8
60°	3457.6	635.2	114.8	76.5	66.1	59.1	48.7	29.0	17.4	12.8	12.8
62.5°	3197.9	539.0	102.0	62.6	54.5	45.2	25.5	16.2	8.1	4.6	3.5
65°	2860.6	453.2	91.6	49.8	42.9	29.0	13.9	10.4	3.5	0.0	0.0
67.5°	2126.9	336.1	77.7	39.4	32.5	18.5	9.3	5.8	1.2	0.0	0.0
70°	985.2	205.2	66.1	30.1	23.2	13.9	7.0	3.5	0.0	0.0	0.0
72.5°	282.8	128.7	54.5	22.0	16.2	11.6	5.8	2.3	1.2	0.0	0.0
75°	98.5	103.2	40.6	16.2	12.8	8.1	4.6	2.3	1.2	0.0	0.0
77.5°	59.1	83.5	25.5	13.9	10.4	7.0	4.6	2.3	1.2	1.2	0.0
80°	33.6	55.6	16.2	11.6	9.3	5.8	3.5	2.3	1.2	1.2	0.0
82.5°	18.5	26.7	12.8	10.4	8.1	5.8	3.5	2.3	1.2	1.2	1.2
85°	15.1	13.9	10.4	9.3	7.0	4.6	3.5	1.2	0.0	0.0	0.0
87.5°	11.6	9.3	9.3	9.3	7.0	4.6	3.5	1.2	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)