

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: P650894

Luminaire Tested: **GALN-SA5C-840-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650894
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-SA5C-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA 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: 24259.5 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

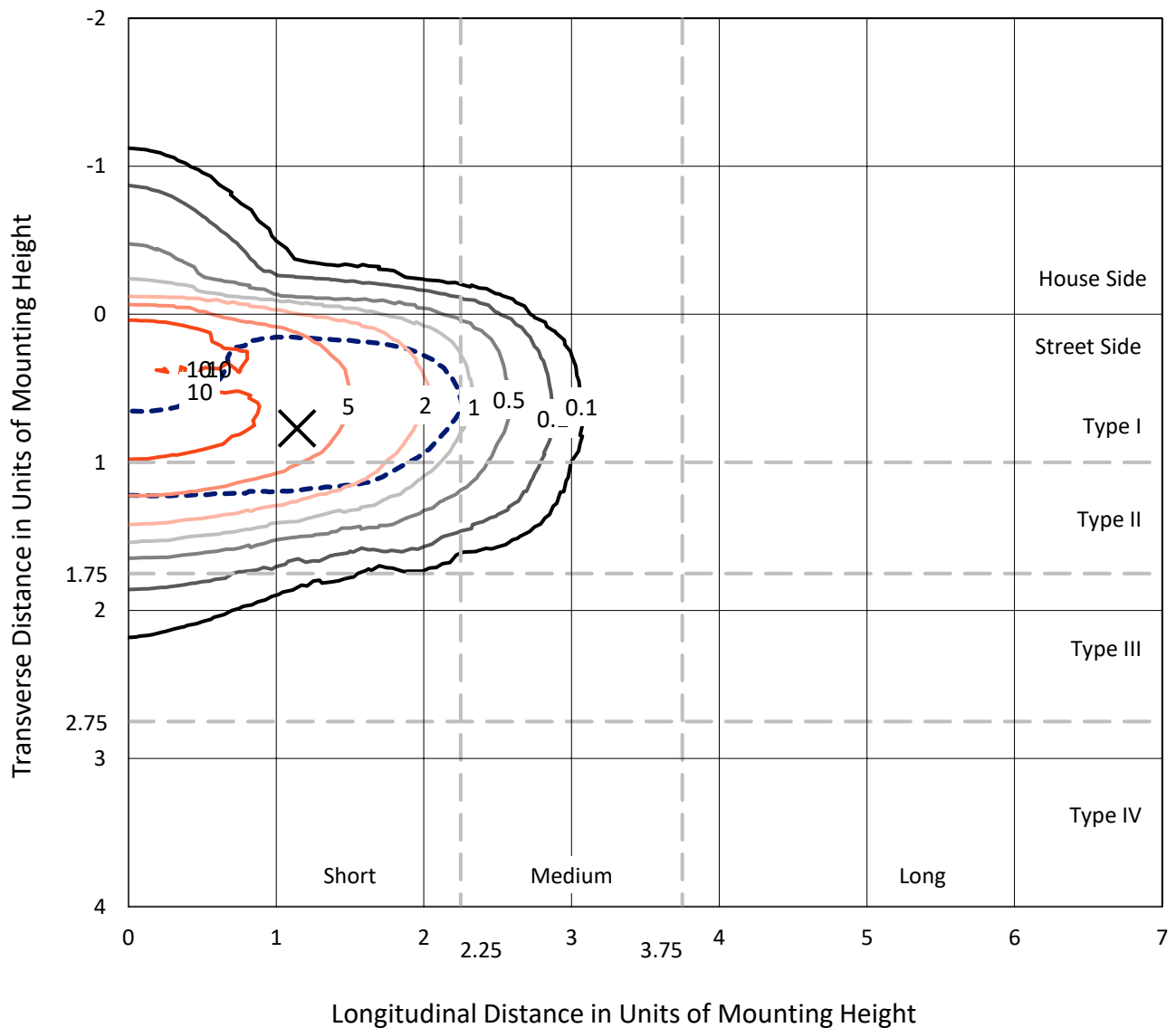
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

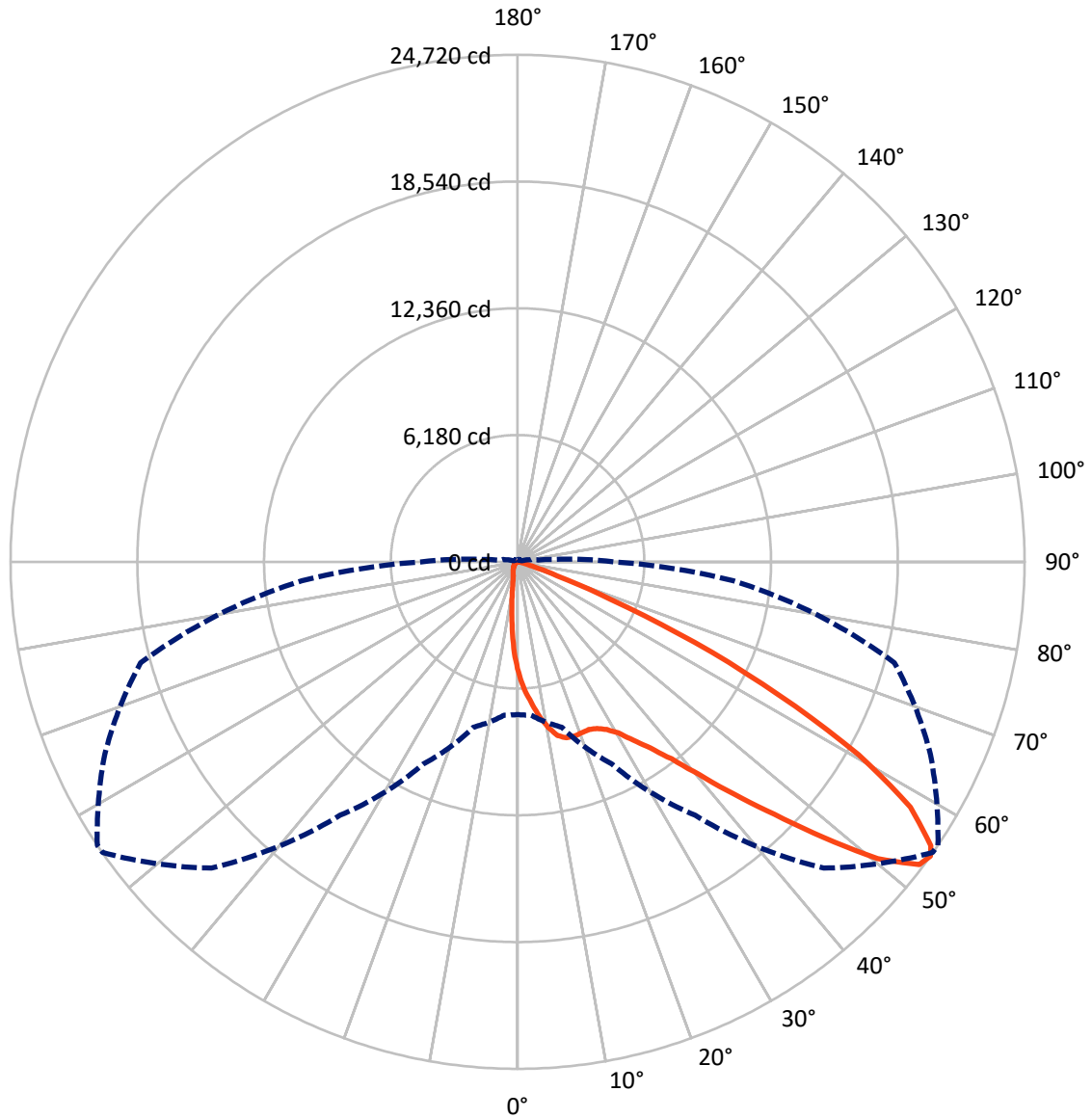
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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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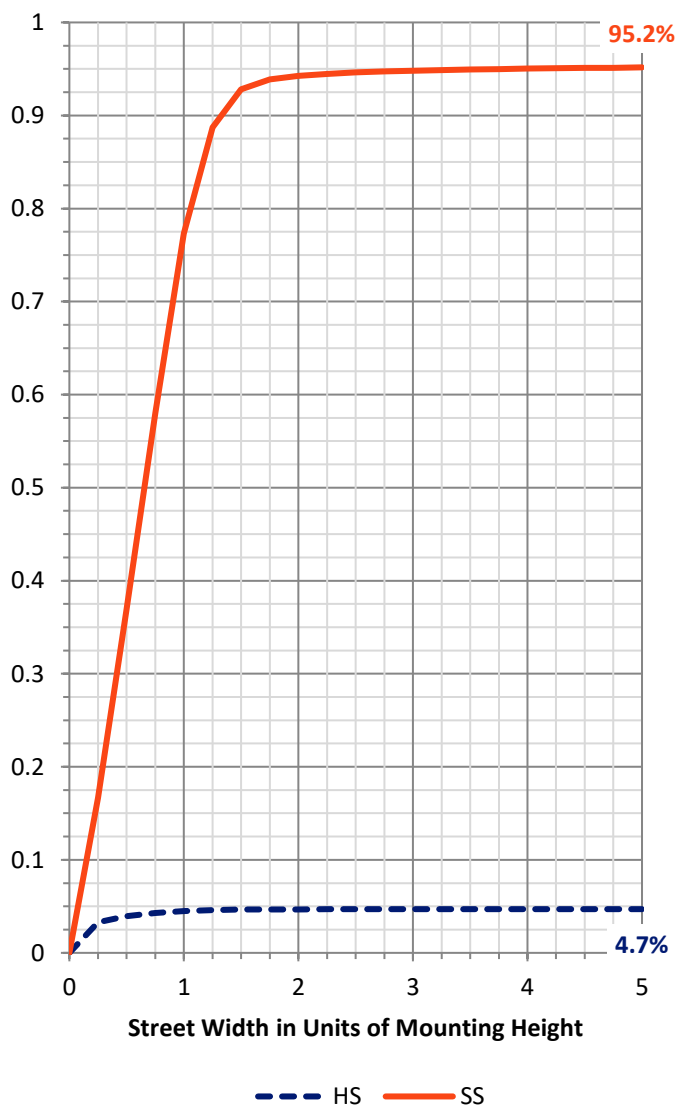
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1147.2	0.0	1147.2
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	23112.3	0.0	23112.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	24259.5	0.0	24259.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.3	2.0
10°-20°	1287.5	5.3
20°-30°	2229.9	9.2
30°-40°	3849.1	15.9
40°-50°	6551.3	27.0
50°-60°	6483.4	26.7
60°-70°	2959.2	12.2
70°-80°	380.0	1.6
80°-90°	42.8	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°	24259.5	100.0
0°-180°	24259.5	100.0

Coefficient of Utilization



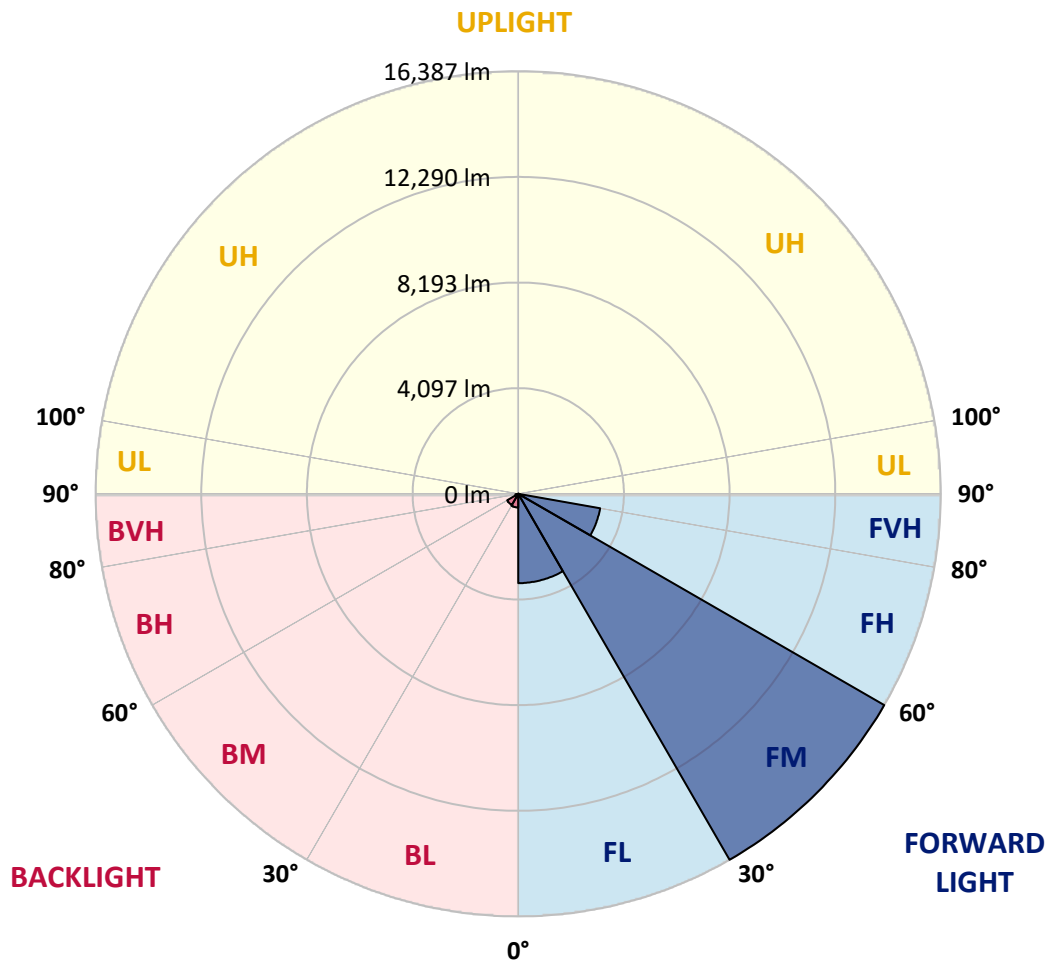
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3463.1	14.3			
FM (30°-60°)	16386.7	67.5			
FH (60°-80°)	3224.3	13.3			G2/5000
FVH (80°-90°)	38.2	0.2			G1/100
BL (0°-30°)	530.5	2.2	B2/1000		
BM (30°-60°)	497.2	2.0	B1/1000		
BH (60°-80°)	114.9	0.5	B1/500		G1/500
BVH (80°-90°)	4.6	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5389.8	5389.8	5389.8	5389.8	5389.8	5389.8	5389.8	5389.8	5389.8	5389.8	5389.8
2.5°	6849.7	6802.3	6736.8	6686.0	6566.6	6394.7	6213.1	6213.1	6037.9	5794.1	5545.2
5°	7900.5	7869.4	7805.6	7674.6	7540.4	7299.8	6934.8	6871.0	6558.4	6116.5	5651.6
7.5°	8327.7	8342.5	8345.7	8311.4	8247.5	8010.2	7648.5	7604.2	7105.0	6512.5	5790.8
10°	7918.5	7990.5	8060.9	8203.3	8404.6	8461.9	8257.3	8211.5	7720.5	6913.5	5941.3
12.5°	7309.6	7348.9	7388.2	7612.5	8016.7	8479.9	8694.3	8692.7	8277.0	7312.9	6132.8
15°	7026.5	7060.9	7064.1	7164.0	7514.3	8188.6	8880.9	8905.4	8820.3	7805.6	6339.0
17.5°	7085.4	7113.3	7090.3	7114.9	7298.2	7867.8	8859.6	8941.5	9260.7	8278.6	6525.7
20°	7470.0	7524.1	7435.7	7366.9	7422.6	7782.7	8787.6	8902.2	9571.6	8740.2	6695.9
22.5°	8160.7	8190.2	8078.9	7890.7	7792.5	7961.1	8768.0	8880.9	9836.8	9118.2	6794.1
25°	8928.4	8918.6	8795.8	8584.7	8378.5	8321.2	8897.3	8998.8	10056.1	9458.6	6823.5
27.5°	9696.0	9725.5	9519.2	9257.4	9010.2	8861.3	9187.0	9262.3	10303.3	9846.6	6859.5
30°	10588.0	10540.6	10337.6	10038.1	9754.9	9547.0	9653.4	9674.7	10643.7	10360.5	6954.5
32.5°	11748.4	11617.5	11390.0	10866.3	10663.3	10311.4	10337.6	10363.8	11057.8	10869.5	7069.0
35°	13323.0	13316.5	12871.3	12165.8	11671.6	11234.5	11120.0	11141.2	11684.6	11625.7	7322.8
37.5°	15218.3	15244.6	14737.2	14026.8	13116.7	12422.8	12187.1	12190.4	12637.2	12669.9	7709.0
40°	16761.8	16830.5	16527.8	16048.1	15149.6	14064.5	13668.4	13632.4	13976.1	13935.1	8260.6
42.5°	17426.3	17490.1	17603.1	17770.0	17275.7	16380.4	15445.8	15494.9	15599.7	15313.3	8879.3
45°	17100.6	17202.1	17645.6	18676.8	19141.6	18840.4	17725.8	17553.9	17110.4	16810.9	9501.2
47.5°	15743.8	15990.9	16732.3	18449.3	20076.2	21094.2	20298.8	20071.2	18622.8	17904.2	9897.3
50°	13512.9	13527.6	14560.4	16755.2	19591.7	22516.5	22925.7	22755.5	20031.9	18518.0	10097.0
52.5°	9795.9	10118.2	11064.3	13606.1	17493.4	22300.5	24600.1	24529.7	21485.4	18832.3	10385.1
54°	7447.1	7509.3	8350.6	10872.8	15082.5	21113.8	24703.2	24719.6	22207.2	19022.1	10555.3
55°	6105.0	5956.0	6839.9	9262.3	13437.6	20064.7	24366.0	24444.6	22531.2	19120.3	10681.3
57.5°	2893.7	2895.4	3571.4	4885.6	8416.1	15580.0	22305.4	22583.6	22567.3	19288.9	11069.2
60°	1464.9	1474.7	1623.6	2255.4	4157.3	10357.3	18442.7	19105.6	20830.7	19313.5	11196.9
62.5°	1024.6	1013.2	988.6	1085.1	1749.7	5263.7	13730.6	14306.7	17698.0	18378.9	10791.0
65°	877.2	852.8	784.0	769.3	883.8	2096.6	8552.0	9491.4	13512.9	15914.0	9635.4
67.5°	749.6	739.8	677.6	640.0	625.2	913.3	4412.6	4906.9	9236.1	11439.1	7298.2
70°	636.7	631.8	594.2	546.6	505.8	546.6	1636.8	2027.9	5147.5	6159.1	3443.7
72.5°	517.2	522.1	528.7	468.1	425.5	387.9	698.9	813.4	2154.0	2201.4	1204.6
75°	453.4	448.5	448.5	407.5	355.2	288.0	384.7	414.1	659.6	612.2	279.9
77.5°	319.2	307.7	360.1	335.6	296.3	204.6	219.3	232.5	273.3	234.1	130.9
80°	220.9	220.9	230.8	301.2	266.8	148.9	134.2	144.1	162.1	139.1	75.3
82.5°	124.4	127.7	150.5	160.4	155.5	99.8	88.4	90.0	108.0	94.9	47.4
85°	14.7	24.6	86.7	85.1	63.8	44.2	49.1	50.7	67.1	59.0	27.8
87.5°	1.6	3.3	18.0	22.9	16.4	18.0	18.0	18.0	22.9	26.2	19.7
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°	5389.8	5389.8	5389.8	5389.8	5389.8	5389.8	5389.8	5389.8	5389.8	5389.8	5389.8
2.5°	5411.1	5286.6	4990.4	4646.7	4427.4	4070.5	3769.4	3551.7	3497.7	3392.9	3424.0
5°	5404.5	5145.9	4541.9	3903.6	3222.7	2715.3	2337.2	2039.3	1908.4	1821.7	1761.1
7.5°	5407.8	5003.5	4034.5	3018.1	2204.7	1707.1	1356.9	1175.2	1054.0	1003.3	1009.9
10°	5417.6	4843.1	3445.3	2235.8	1487.8	1103.1	888.8	802.0	761.1	754.5	752.9
12.5°	5440.5	4668.0	2882.3	1659.6	1041.0	802.0	720.1	690.7	677.6	677.6	672.7
15°	5465.1	4474.8	2414.2	1234.1	802.0	689.0	651.4	636.7	628.5	628.5	626.9
17.5°	5465.1	4252.3	1977.2	957.5	690.7	633.4	603.9	584.3	577.8	577.8	576.2
20°	5430.7	3993.7	1589.2	770.9	626.9	581.0	551.6	530.3	522.1	518.8	517.2
22.5°	5311.2	3648.3	1265.2	662.9	574.5	535.2	497.5	473.0	466.5	463.2	464.8
25°	5098.4	3258.7	1001.7	582.6	527.1	479.5	446.8	428.8	422.3	422.3	423.9
27.5°	4879.1	2851.2	793.8	522.1	469.8	427.2	401.0	389.6	387.9	392.8	394.4
30°	4676.1	2442.0	643.2	473.0	419.0	383.0	365.0	361.7	361.7	363.4	365.0
32.5°	4450.2	2083.6	538.5	430.4	378.1	347.0	337.2	337.2	340.4	340.4	343.7
35°	4307.9	1775.9	473.0	389.6	347.0	320.8	314.3	315.9	320.8	327.3	330.6
37.5°	4231.0	1530.4	430.4	356.8	317.6	299.5	293.0	296.3	307.7	319.2	320.8
40°	4237.5	1345.4	396.1	329.0	294.6	275.0	270.0	279.9	291.3	302.8	304.4
42.5°	4309.5	1207.9	363.4	296.3	275.0	247.2	245.5	255.3	260.2	271.7	273.3
45°	4394.6	1108.1	329.0	261.9	238.9	214.4	216.1	224.2	230.8	248.8	252.0
47.5°	4420.8	1039.3	289.7	222.6	196.4	188.2	189.9	194.8	207.9	224.2	225.9
50°	4450.2	996.8	252.0	188.2	166.9	165.3	166.9	170.2	178.4	184.9	183.3
52.5°	4576.3	995.2	220.9	163.7	142.4	145.7	147.3	145.7	139.1	129.3	126.1
54°	4694.1	1000.0	206.2	152.2	130.9	135.8	134.2	126.1	109.7	99.8	94.9
55°	4789.1	1005.0	198.1	144.1	124.4	126.1	127.7	111.3	90.0	80.2	77.0
57.5°	4975.7	993.5	178.4	126.1	109.7	103.1	101.5	73.7	49.1	42.6	39.3
60°	4882.3	896.9	162.1	108.0	93.3	83.5	68.7	41.0	24.6	18.0	18.0
62.5°	4515.7	761.1	144.1	88.4	77.0	63.8	36.0	22.9	11.4	6.6	4.9
65°	4039.5	640.0	129.3	70.4	60.6	41.0	19.7	14.7	4.9	0.0	0.0
67.5°	3003.4	474.7	109.7	55.7	45.8	26.2	13.1	8.2	1.6	0.0	0.0
70°	1391.2	289.7	93.3	42.6	32.7	19.7	9.8	4.9	0.0	0.0	0.0
72.5°	399.4	181.7	77.0	31.1	22.9	16.4	8.2	3.3	1.6	0.0	0.0
75°	139.1	145.7	57.3	22.9	18.0	11.4	6.6	3.3	1.6	0.0	0.0
77.5°	83.5	117.8	36.0	19.7	14.7	9.8	6.6	3.3	1.6	1.6	0.0
80°	47.4	78.5	22.9	16.4	13.1	8.2	4.9	3.3	1.6	1.6	0.0
82.5°	26.2	37.7	18.0	14.7	11.4	8.2	4.9	3.3	1.6	1.6	1.6
85°	21.3	19.7	14.7	13.1	9.8	6.6	4.9	1.6	0.0	0.0	0.0
87.5°	16.4	13.1	13.1	13.1	9.8	6.6	4.9	1.6	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)