

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: P648419

Luminaire Tested: **GALN-SA5B-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648419
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-SA5B-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 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: 18280.7 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

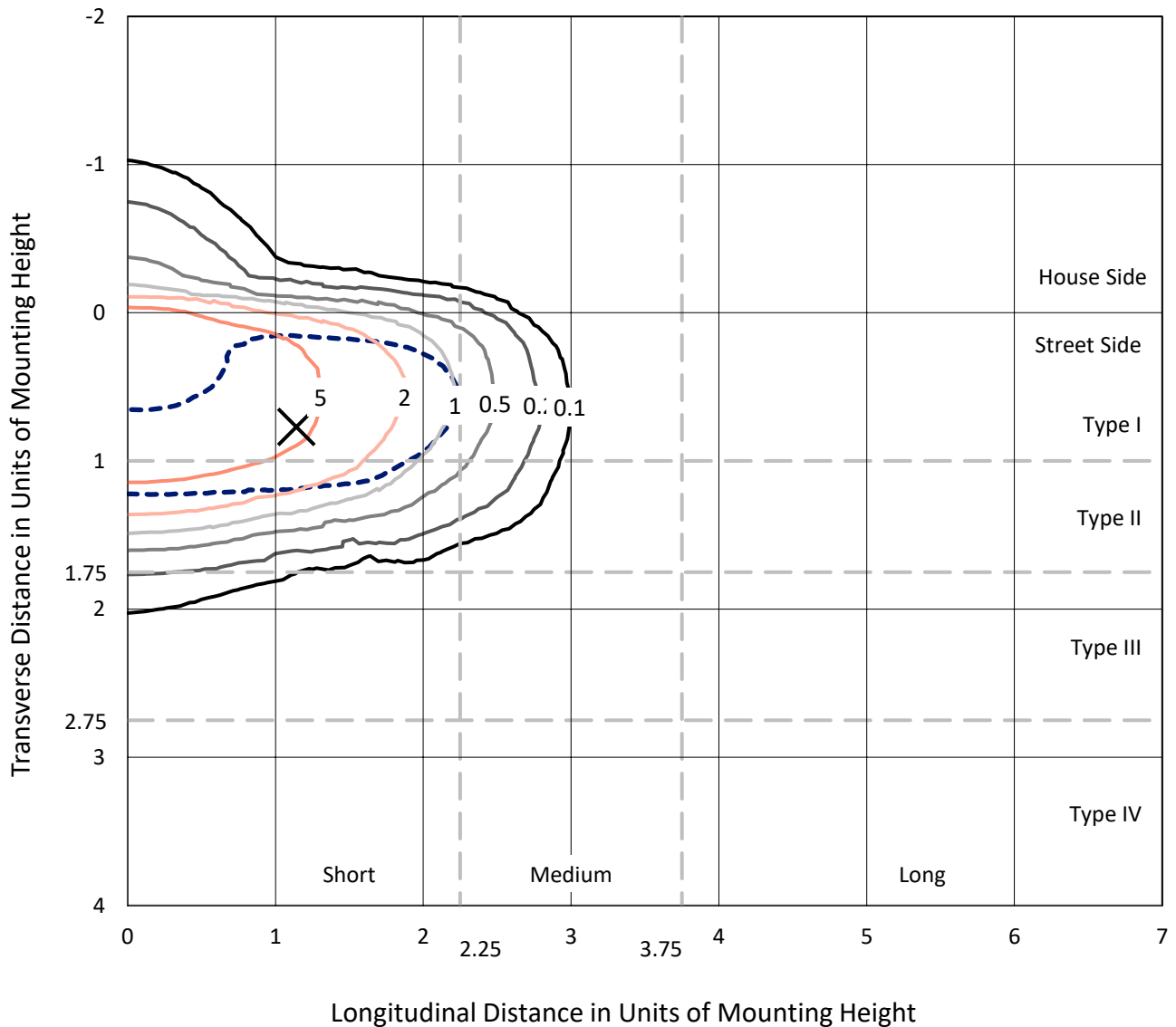
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

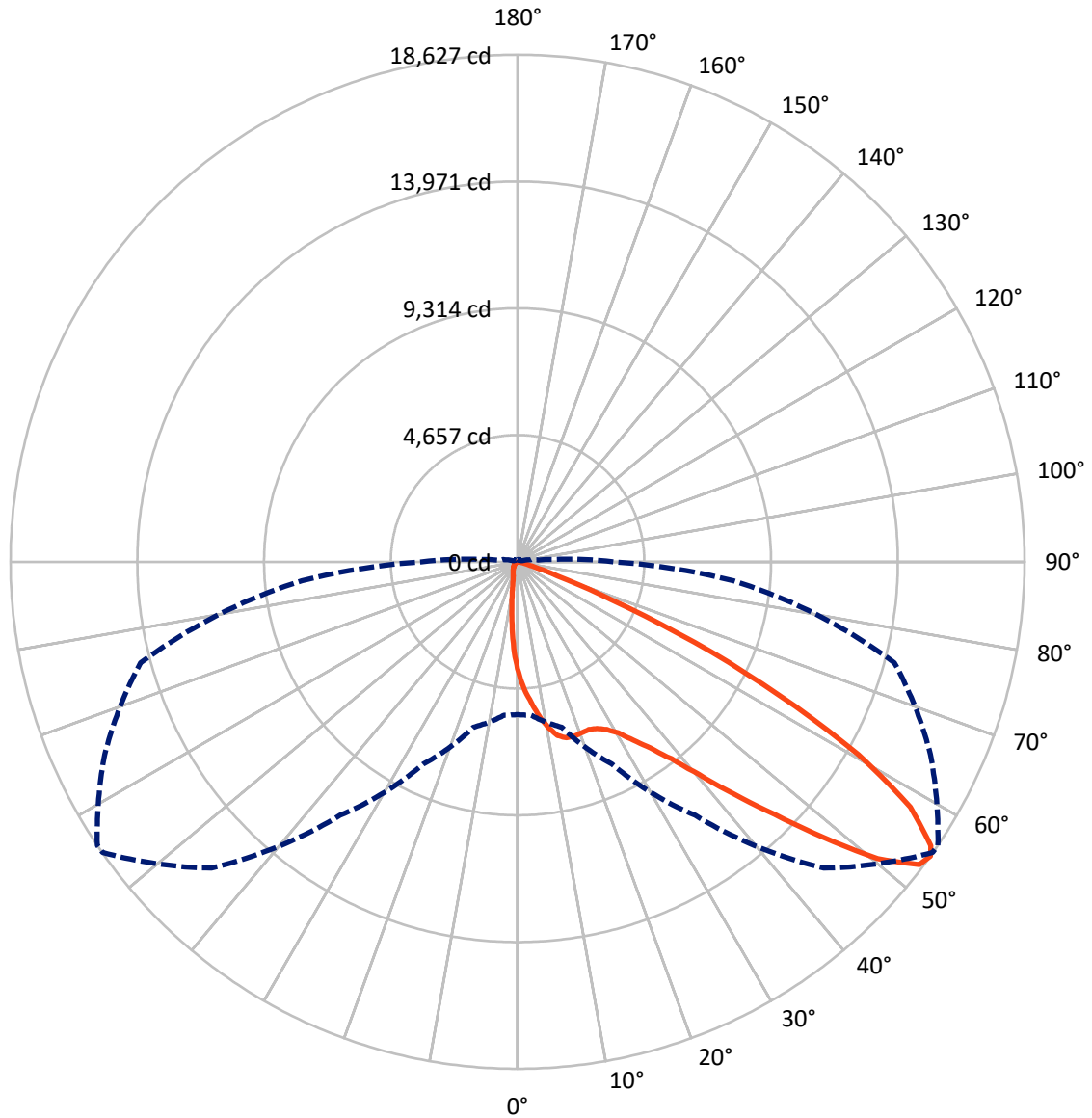
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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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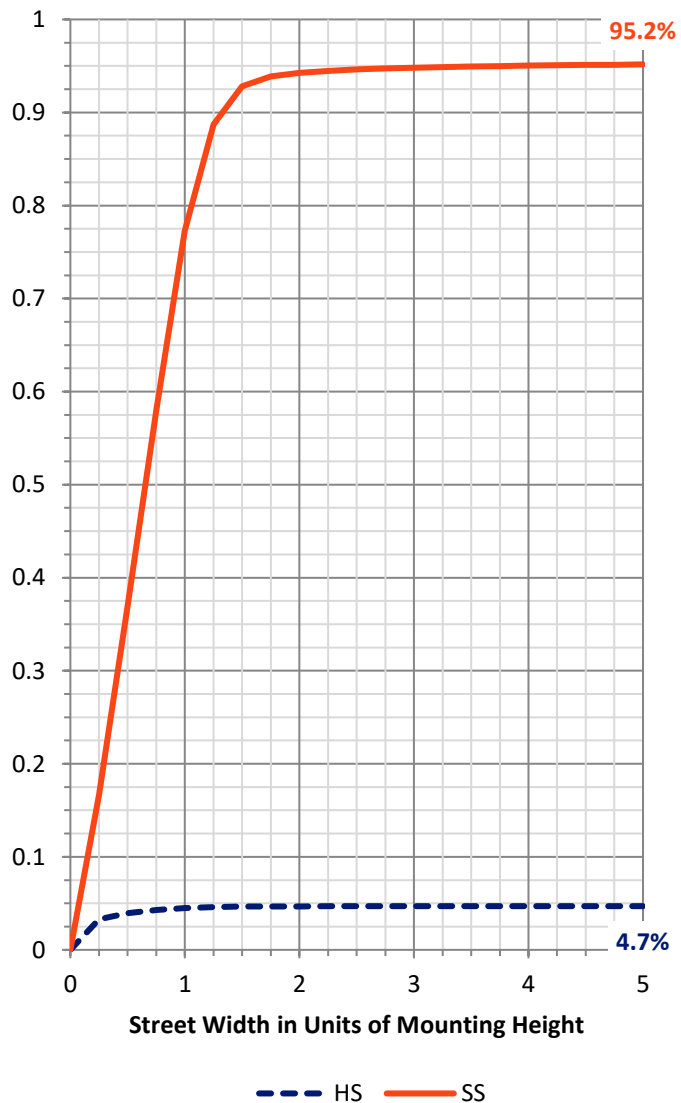
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	864.5	0.0	864.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	17416.2	0.0	17416.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	18280.7	0.0	18280.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.9	2.0
10°-20°	970.2	5.3
20°-30°	1680.3	9.2
30°-40°	2900.5	15.9
40°-50°	4936.8	27.0
50°-60°	4885.5	26.7
60°-70°	2229.9	12.2
70°-80°	286.4	1.6
80°-90°	32.3	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°	18280.7	100.0
0°-180°	18280.7	100.0

Coefficient of Utilization

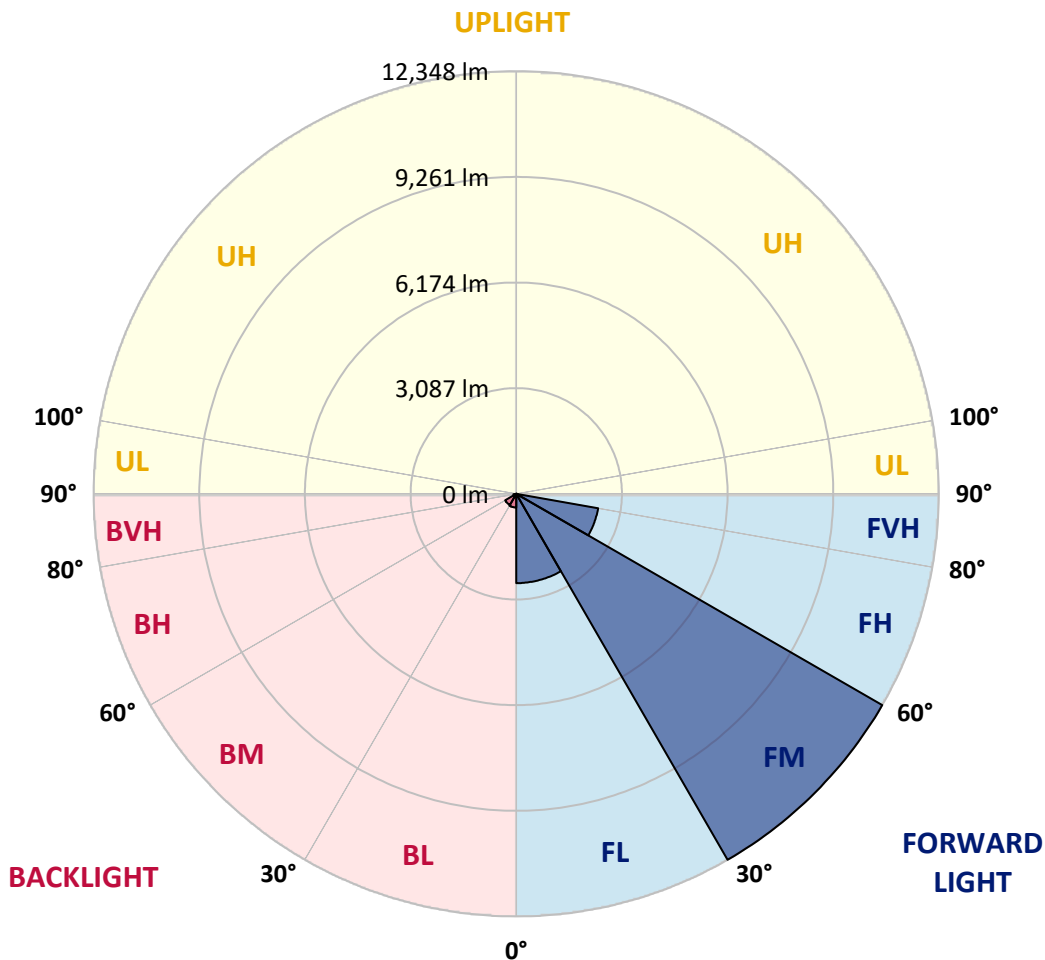


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2609.6	14.3			
FM (30°-60°)	12348.1	67.5			
FH (60°-80°)	2429.7	13.3			G2/5000
FVH (80°-90°)	28.8	0.2			G1/100
BL (0°-30°)	399.8	2.2	B1/500		
BM (30°-60°)	374.6	2.0	B1/1000		
BH (60°-80°)	86.6	0.5	B0/110		G0/110
BVH (80°-90°)	3.5	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°	4061.4	4061.4	4061.4	4061.4	4061.4	4061.4	4061.4	4061.4	4061.4	4061.4	4061.4
2.5°	5161.6	5125.8	5076.5	5038.3	4948.2	4818.7	4681.8	4681.8	4549.9	4366.1	4178.6
5°	5953.4	5930.0	5881.9	5783.2	5682.1	5500.8	5225.7	5177.7	4942.1	4609.1	4258.8
7.5°	6275.4	6286.4	6288.9	6263.0	6214.9	6036.1	5763.5	5730.2	5354.0	4907.5	4363.6
10°	5967.0	6021.3	6074.3	6181.6	6333.3	6376.4	6222.3	6187.7	5817.8	5209.7	4477.1
12.5°	5508.2	5537.8	5567.4	5736.3	6041.0	6390.1	6551.6	6550.3	6237.1	5510.7	4621.4
15°	5294.8	5320.7	5323.1	5398.4	5662.3	6170.5	6692.2	6710.7	6646.6	5881.9	4776.8
17.5°	5339.2	5360.2	5342.9	5361.4	5499.6	5928.7	6676.2	6737.8	6978.3	6238.3	4917.4
20°	5629.1	5669.8	5603.1	5551.3	5593.3	5864.6	6621.9	6708.2	7212.7	6586.1	5045.7
22.5°	6149.5	6171.7	6087.8	5946.0	5872.0	5999.0	6607.1	6692.2	7412.5	6871.1	5119.6
25°	6727.9	6720.6	6628.1	6469.0	6313.6	6270.4	6704.5	6781.0	7577.7	7127.6	5141.9
27.5°	7306.4	7328.6	7173.2	6975.9	6789.6	6677.4	6922.8	6979.6	7764.0	7419.9	5169.0
30°	7978.6	7942.8	7789.9	7564.2	7350.8	7194.2	7274.3	7290.4	8020.5	7807.1	5240.5
32.5°	8853.1	8754.4	8582.9	8188.2	8035.3	7770.2	7789.9	7809.6	8332.5	8190.7	5326.9
35°	10039.5	10034.6	9699.1	9167.5	8795.0	8465.8	8379.4	8395.5	8804.9	8760.5	5518.0
37.5°	11467.7	11487.5	11105.1	10569.9	9884.1	9361.2	9183.6	9186.1	9522.8	9547.4	5809.1
40°	12630.8	12682.6	12454.5	12093.0	11416.0	10598.2	10299.7	10272.6	10531.7	10500.8	6224.8
42.5°	13131.5	13179.7	13264.7	13390.6	13018.1	12343.4	11639.2	11676.2	11755.1	11539.3	6691.0
45°	12886.1	12962.6	13296.8	14073.9	14424.1	14197.2	13357.3	13227.8	12893.5	12667.8	7159.7
47.5°	11863.7	12049.9	12608.6	13902.4	15128.3	15895.5	15296.1	15124.7	14033.2	13491.7	7458.1
50°	10182.6	10193.7	10971.9	12625.9	14763.3	16967.3	17275.6	17147.4	15095.1	13954.2	7608.6
52.5°	7381.7	7624.6	8337.5	10252.9	13182.1	16804.5	18537.4	18484.4	16190.2	14191.0	7825.6
54°	5611.8	5658.7	6292.6	8193.2	11365.4	15910.3	18615.0	18627.4	16734.2	14334.1	7953.9
55°	4600.4	4488.2	5154.2	6979.6	10125.8	15119.7	18361.0	18420.2	16978.4	14408.1	8048.9
57.5°	2180.6	2181.8	2691.2	3681.6	6341.9	11740.3	16808.2	17017.9	17005.5	14535.1	8341.2
60°	1103.9	1111.2	1223.5	1699.6	3132.7	7804.7	13897.5	14397.0	15697.0	14553.6	8437.4
62.5°	772.1	763.4	744.9	817.7	1318.5	3966.4	10346.6	10780.8	13336.3	13849.4	8131.5
65°	661.1	642.6	590.8	579.7	666.0	1579.9	6444.3	7152.2	10182.6	11992.0	7260.8
67.5°	564.9	557.5	510.6	482.2	471.1	688.2	3325.2	3697.6	6959.9	8620.0	5499.6
70°	479.7	476.1	447.7	411.9	381.1	411.9	1233.4	1528.1	3878.9	4641.2	2595.0
72.5°	389.8	393.5	398.4	352.7	320.6	292.3	526.6	613.0	1623.1	1658.9	907.7
75°	341.6	337.9	337.9	307.1	267.6	217.0	289.9	312.0	497.0	461.3	210.9
77.5°	240.5	231.8	271.3	252.8	223.2	154.2	165.3	175.2	206.0	176.3	98.7
80°	166.5	166.5	173.9	226.9	201.1	112.2	101.2	108.5	122.1	104.8	56.8
82.5°	93.7	96.2	113.5	120.9	117.1	75.2	66.6	67.8	81.4	71.6	35.8
85°	11.1	18.5	65.4	64.1	48.1	33.3	37.0	38.2	50.6	44.4	21.0
87.5°	1.3	2.5	13.5	17.3	12.4	13.5	13.5	13.5	17.3	19.7	14.8
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°	4061.4	4061.4	4061.4	4061.4	4061.4	4061.4	4061.4	4061.4	4061.4	4061.4	4061.4
2.5°	4077.5	3983.7	3760.5	3501.5	3336.2	3067.3	2840.4	2676.4	2635.7	2556.7	2580.2
5°	4072.5	3877.7	3422.6	2941.6	2428.5	2046.1	1761.2	1536.8	1438.1	1372.8	1327.1
7.5°	4075.0	3770.4	3040.2	2274.3	1661.4	1286.4	1022.4	885.6	794.3	756.1	761.0
10°	4082.4	3649.5	2596.2	1684.8	1121.1	831.3	669.7	604.3	573.5	568.6	567.4
12.5°	4099.7	3517.5	2172.0	1250.6	784.4	604.3	542.7	520.5	510.6	510.6	506.9
15°	4118.2	3372.0	1819.2	930.0	604.3	519.2	490.9	479.7	473.6	473.6	472.4
17.5°	4118.2	3204.3	1489.9	721.5	520.5	477.3	455.1	440.3	435.3	435.3	434.2
20°	4092.3	3009.4	1197.6	580.9	472.4	437.9	415.6	399.6	393.5	391.0	389.8
22.5°	4002.2	2749.2	953.4	499.5	432.9	403.3	375.0	356.4	351.5	349.1	350.2
25°	3841.9	2455.6	754.8	439.1	397.1	361.4	336.7	323.1	318.2	318.2	319.5
27.5°	3676.7	2148.5	598.2	393.5	354.0	321.9	302.2	293.5	292.3	296.0	297.2
30°	3523.7	1840.2	484.7	356.4	315.7	288.6	275.1	272.6	272.6	273.8	275.1
32.5°	3353.5	1570.1	405.8	324.4	284.9	261.4	254.1	254.1	256.5	256.5	259.0
35°	3246.2	1338.2	356.4	293.5	261.4	241.7	236.8	238.0	241.7	246.6	249.2
37.5°	3188.2	1153.2	324.4	268.9	239.3	225.7	220.8	223.2	231.8	240.5	241.7
40°	3193.2	1013.8	298.5	247.9	222.0	207.2	203.5	210.9	219.6	228.2	229.4
42.5°	3247.4	910.2	273.8	223.2	207.2	186.3	185.0	192.4	196.1	204.8	206.0
45°	3311.5	835.0	247.9	197.3	180.1	161.5	162.8	169.0	173.9	187.5	190.0
47.5°	3331.3	783.2	218.3	167.7	148.0	141.8	143.1	146.7	156.6	169.0	170.2
50°	3353.5	751.1	190.0	141.8	125.8	124.6	125.8	128.3	134.4	139.4	138.1
52.5°	3448.5	749.9	166.5	123.3	107.3	109.8	111.0	109.8	104.8	97.4	95.0
54°	3537.3	753.6	155.4	114.7	98.7	102.3	101.2	95.0	82.6	75.2	71.6
55°	3608.8	757.3	149.2	108.5	93.7	95.0	96.2	83.9	67.8	60.4	57.9
57.5°	3749.4	748.6	134.4	95.0	82.6	77.7	76.5	55.5	37.0	32.1	29.6
60°	3679.1	675.9	122.1	81.4	70.3	62.9	51.8	30.9	18.5	13.5	13.5
62.5°	3402.8	573.5	108.5	66.6	57.9	48.1	27.2	17.3	8.6	4.9	3.7
65°	3043.9	482.2	97.4	53.0	45.6	30.9	14.8	11.1	3.7	0.0	0.0
67.5°	2263.2	357.7	82.6	42.0	34.5	19.7	9.9	6.2	1.3	0.0	0.0
70°	1048.4	218.3	70.3	32.1	24.7	14.8	7.4	3.7	0.0	0.0	0.0
72.5°	300.9	136.9	57.9	23.4	17.3	12.4	6.2	2.5	1.3	0.0	0.0
75°	104.8	109.8	43.1	17.3	13.5	8.6	4.9	2.5	1.3	0.0	0.0
77.5°	62.9	88.8	27.2	14.8	11.1	7.4	4.9	2.5	1.3	1.3	0.0
80°	35.8	59.2	17.3	12.4	9.9	6.2	3.7	2.5	1.3	1.3	0.0
82.5°	19.7	28.3	13.5	11.1	8.6	6.2	3.7	2.5	1.3	1.3	1.3
85°	16.1	14.8	11.1	9.9	7.4	4.9	3.7	1.3	0.0	0.0	0.0
87.5°	12.4	9.9	9.9	9.9	7.4	4.9	3.7	1.3	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)