

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: P528669

Luminaire Tested: **GALN-SA3D-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16048 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

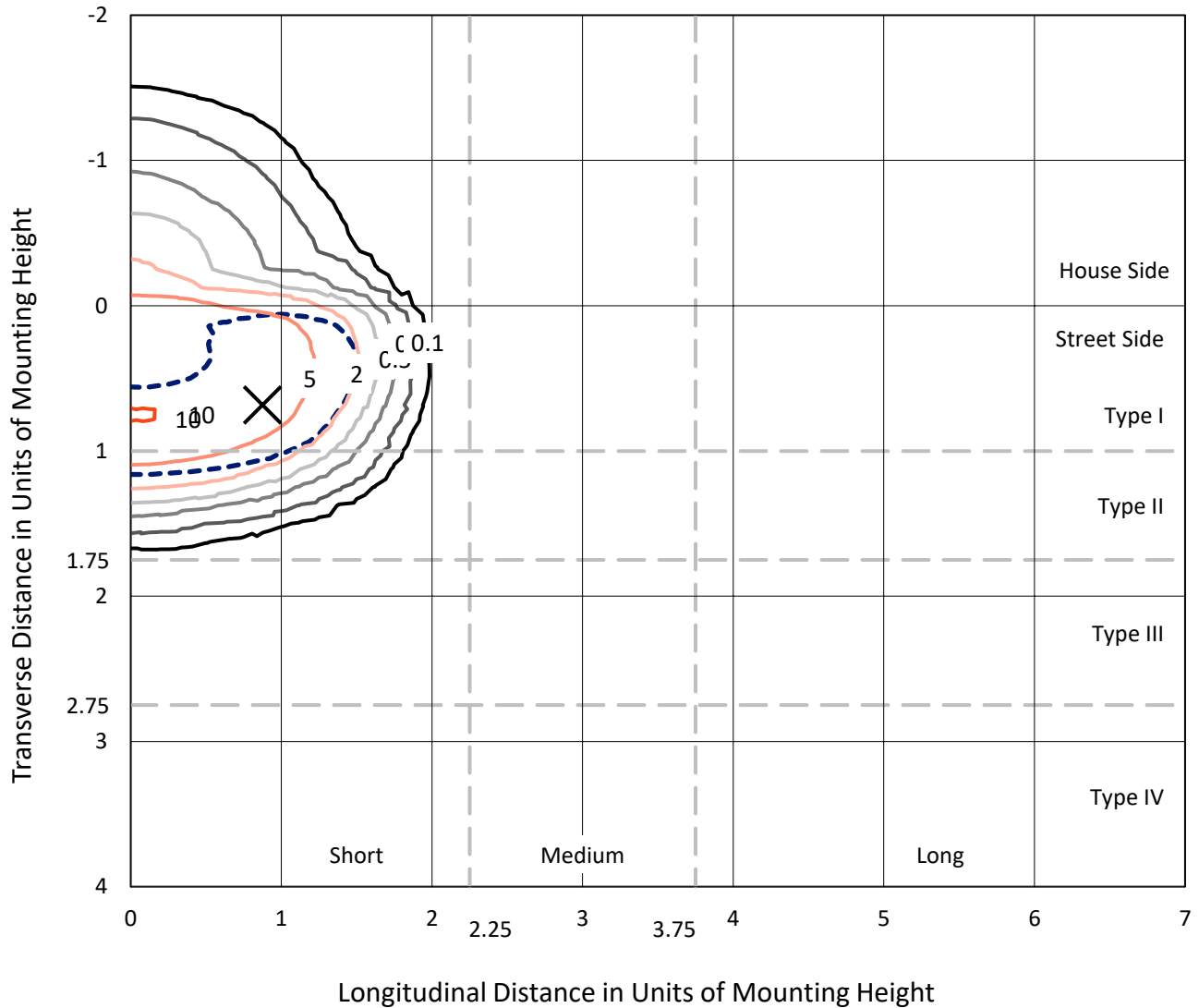
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

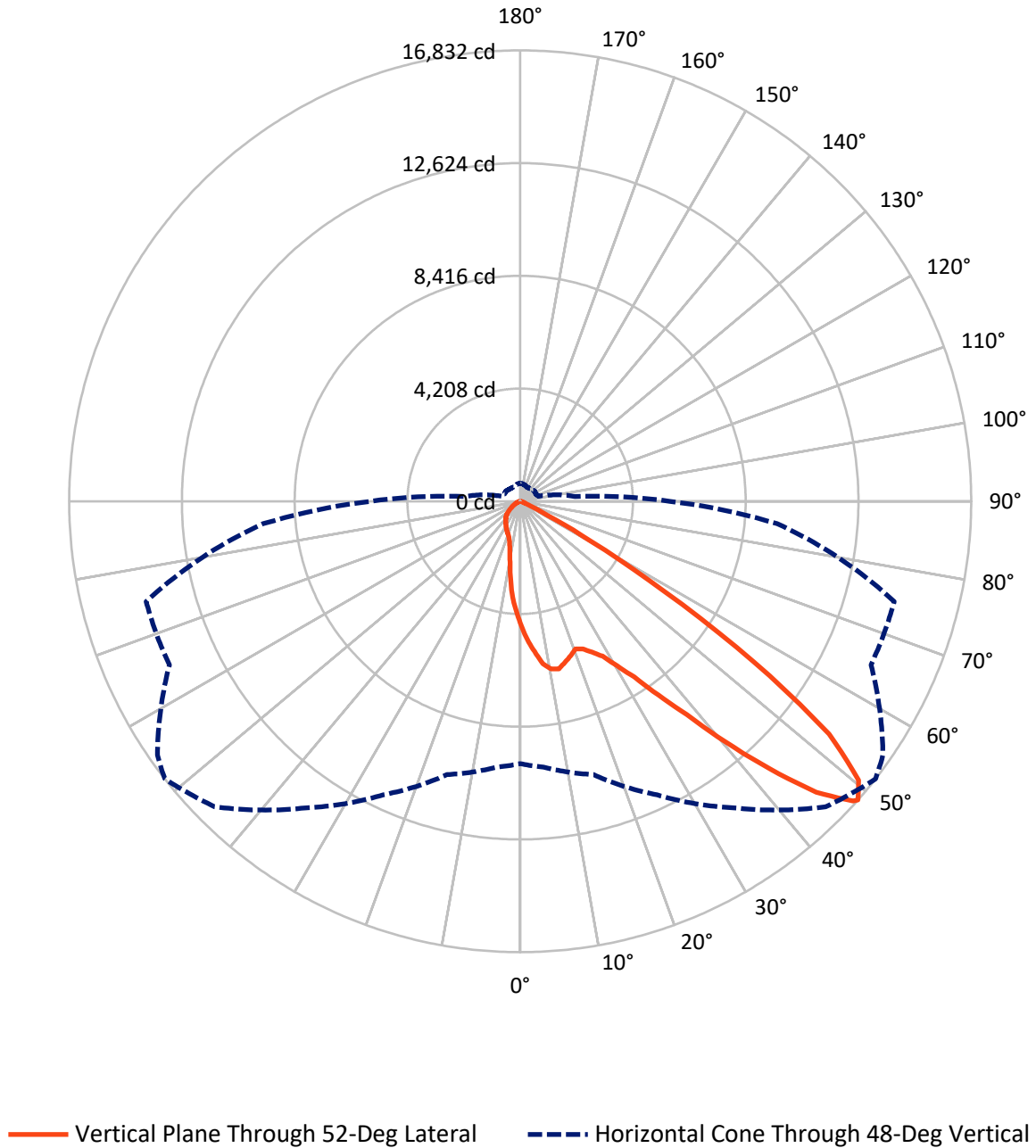
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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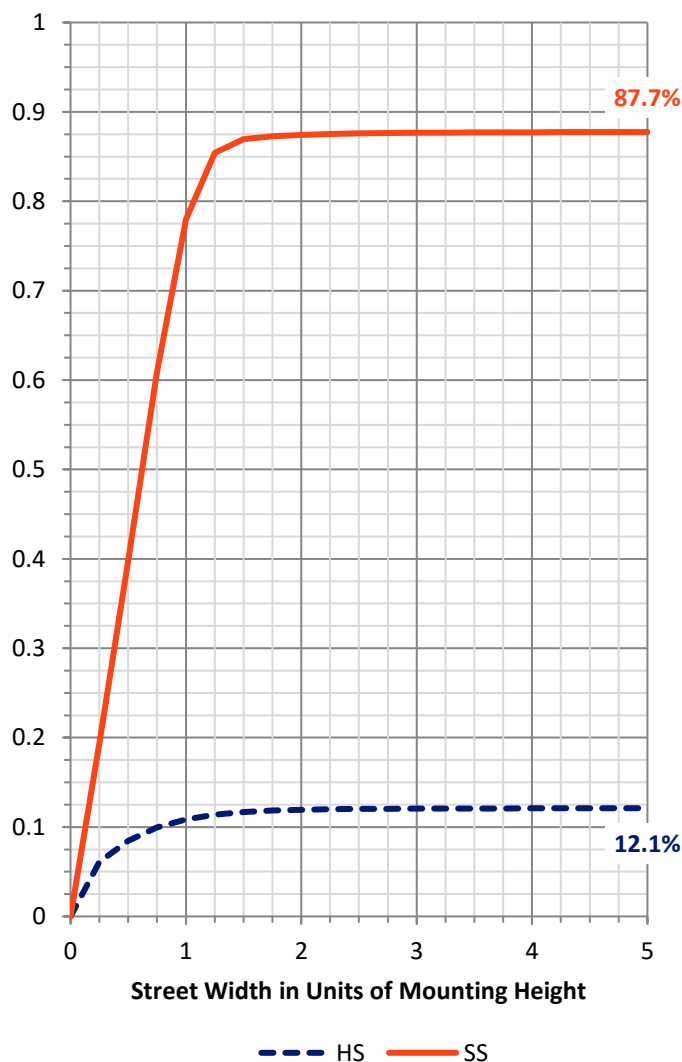
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1954.0	0.0	1954.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	14094.0	0.0	14094.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	16048.0	0.0	16048.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.2	2.6
10°-20°	1108.5	6.9
20°-30°	1892.7	11.8
30°-40°	3485.4	21.7
40°-50°	5412.9	33.7
50°-60°	3257.6	20.3
60°-70°	376.8	2.3
70°-80°	72.9	0.5
80°-90°	16.9	0.1
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°	16048.0	100.0
0°-180°	16048.0	100.0

Coefficient of Utilization



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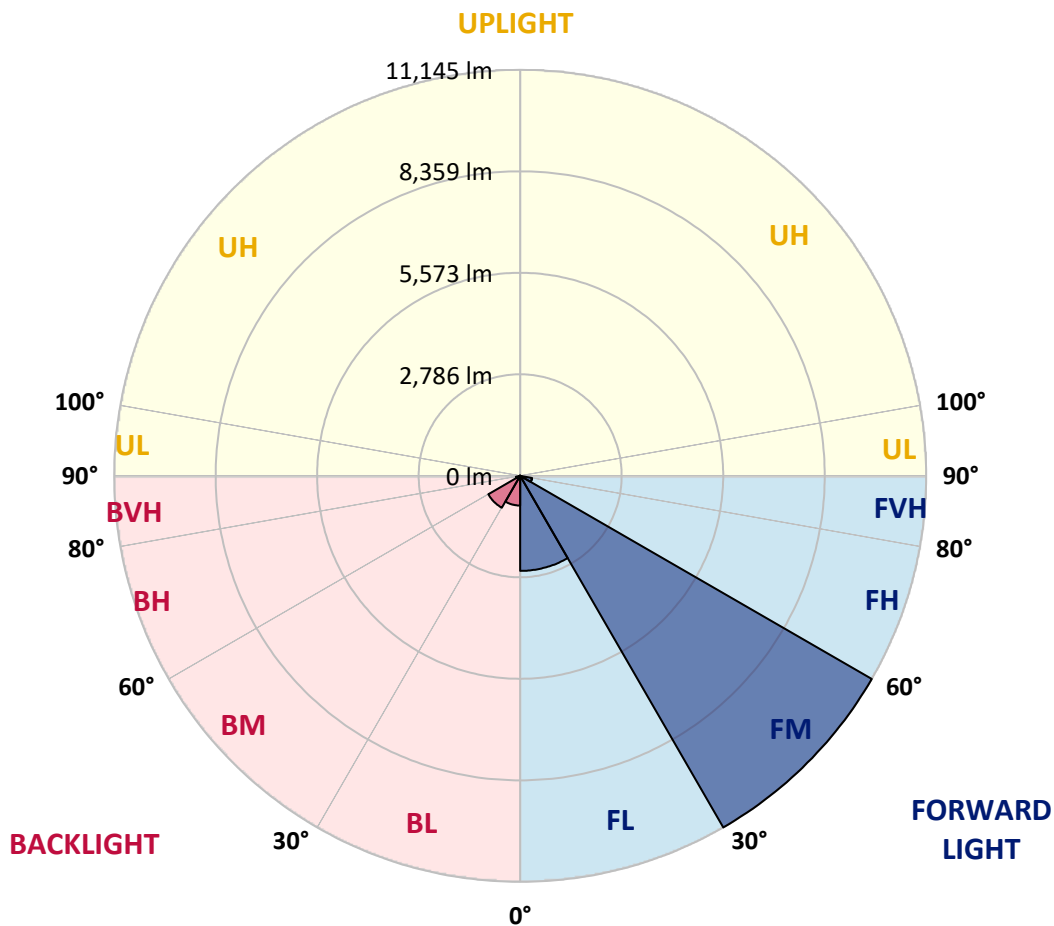
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2609.2	16.3			
FM (30°-60°)	11145.0	69.4			
FH (60°-80°)	331.8	2.1			G0/660
FVH (80°-90°)	8.0	0.0			G0/10
BL (0°-30°)	816.2	5.1	B2/1000		
BM (30°-60°)	1011.0	6.3	B2/2500		
BH (60°-80°)	117.9	0.7	B1/500		G1/500
BVH (80°-90°)	8.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4634.4	4634.4	4634.4	4634.4	4634.4	4634.4	4634.4	4634.4	4634.4	4634.4	4634.4
2.5°	5617.0	5488.3	5500.0	5415.8	5366.6	5287.1	5179.5	5158.4	5041.5	4882.4	4721.0
5°	6122.3	6091.9	6131.6	6010.0	6014.7	5883.6	5631.0	5635.7	5366.6	5107.0	4856.6
7.5°	6155.0	6084.8	6124.6	6232.2	6295.4	6272.0	6129.3	6005.3	5750.3	5369.0	5004.0
10°	5511.7	5645.0	5687.1	5864.9	6117.6	6384.3	6367.9	6374.9	6162.0	5663.7	5130.4
12.5°	5125.7	5036.8	5179.5	5287.1	5668.4	6185.4	6421.7	6473.2	6489.6	5949.2	5256.7
15°	4950.2	4950.2	4973.6	5004.0	5280.1	5757.3	6239.2	6389.0	6742.2	6323.5	5455.5
17.5°	5060.2	5055.5	5088.2	5025.1	5128.0	5495.3	6070.8	6241.6	7025.3	6690.7	5612.3
20°	5394.7	5411.1	5390.0	5207.6	5214.6	5490.6	5883.6	6152.7	7217.1	7008.9	5820.5
22.5°	5860.3	5869.6	5750.3	5551.4	5493.0	5628.7	5991.3	6197.1	7371.5	7390.2	5883.6
25°	6398.3	6360.9	6337.5	6056.8	5879.0	5995.9	6234.6	6353.9	7467.4	7717.8	6063.8
27.5°	7144.6	7069.7	6927.0	6676.7	6545.7	6379.6	6550.4	6746.9	7741.1	8176.3	6260.3
30°	8246.5	8181.0	7902.6	7579.7	7235.8	7072.1	7125.9	7233.5	8234.8	8707.3	6520.0
32.5°	9905.1	9767.1	9364.7	8749.4	8281.6	7830.0	7816.0	7930.6	8676.9	9441.9	6828.8
35°	11732.2	11690.1	11098.2	10464.2	9558.9	8861.7	8873.4	8934.3	9523.8	10405.8	7233.5
37.5°	12946.4	13178.0	12801.3	12120.5	11360.2	10363.6	10111.0	10132.0	10686.5	11547.4	7963.4
40°	13884.5	13688.0	13732.4	13573.3	13054.0	12375.5	11816.4	11706.5	12031.6	12810.7	8688.6
42.5°	13475.1	13484.4	13758.1	14134.8	14263.5	14214.3	13643.5	13435.3	13182.6	13844.7	9378.7
45°	12319.4	12560.4	12916.0	13912.5	14787.5	15608.6	15496.3	15150.1	13978.0	14663.5	9776.4
47.5°	10475.9	10466.6	11049.1	12345.1	14289.2	16212.2	16722.2	16478.9	14541.8	14572.3	9694.6
48°	9795.2	9963.6	10564.8	12090.1	13973.4	16123.3	16832.1	16525.7	14445.9	14450.6	9624.4
50°	7240.5	7210.1	7958.7	9830.3	12480.8	15150.1	16368.9	16607.6	14443.6	13835.3	9133.1
52.5°	3825.0	3956.0	4501.0	6180.8	8824.3	12398.9	14438.9	14810.9	13933.6	12829.4	8426.6
55°	1625.9	1469.2	1887.9	2790.9	4964.3	8283.9	10592.9	11421.1	11781.3	11353.2	7371.5
57.5°	580.2	634.0	729.9	1050.4	2086.8	4533.8	6316.4	6959.8	8162.2	8330.7	5022.7
60°	372.0	379.0	409.4	481.9	783.7	1747.5	2996.8	3509.1	4054.2	4185.2	2344.1
62.5°	287.7	290.1	304.1	315.8	372.0	678.4	1125.3	1333.5	1384.9	1190.8	615.3
65°	241.0	243.3	248.0	248.0	264.4	318.2	393.0	432.8	421.1	416.4	348.6
67.5°	184.8	189.5	198.9	198.9	208.2	194.2	217.6	231.6	262.0	318.2	297.1
70°	145.0	147.4	154.4	159.1	159.1	140.4	156.7	170.8	191.8	236.3	233.9
72.5°	112.3	117.0	121.6	121.6	114.6	95.9	112.3	124.0	138.0	163.8	159.1
75°	86.6	86.6	88.9	72.5	56.1	49.1	67.8	81.9	102.9	107.6	88.9
77.5°	23.4	25.7	23.4	21.1	23.4	35.1	44.4	51.5	65.5	65.5	58.5
80°	0.0	2.3	7.0	14.0	23.4	32.8	39.8	44.4	51.5	56.1	53.8
82.5°	0.0	2.3	7.0	14.0	21.1	25.7	35.1	37.4	42.1	49.1	49.1
85°	0.0	2.3	4.7	9.4	14.0	16.4	16.4	14.0	14.0	11.7	9.4
87.5°	0.0	0.0	2.3	4.7	4.7	7.0	7.0	7.0	7.0	7.0	7.0
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°	4634.4	4634.4	4634.4	4634.4	4634.4	4634.4	4634.4	4634.4	4634.4	4634.4	4634.4
2.5°	4657.8	4585.3	4475.3	4302.2	4136.1	4028.5	3925.6	3810.9	3747.8	3743.1	3708.0
5°	4713.9	4550.2	4288.2	3991.1	3672.9	3399.2	3123.1	2943.0	2781.6	2692.7	2676.3
7.5°	4744.3	4531.5	4108.0	3609.7	3067.0	2620.2	2311.3	2084.4	1995.5	1930.0	1927.7
10°	4807.5	4498.7	3839.0	3104.4	2433.0	1981.5	1768.6	1665.7	1616.5	1597.8	1569.8
12.5°	4854.3	4437.9	3562.9	2585.1	1923.0	1642.3	1548.7	1525.3	1527.6	1537.0	1525.3
15°	4919.8	4384.1	3191.0	2121.9	1614.2	1478.5	1478.5	1483.2	1515.9	1520.6	1518.3
17.5°	4915.1	4278.8	2807.3	1747.5	1427.0	1408.3	1415.4	1459.8	1480.9	1487.9	1471.5
20°	4971.3	4180.5	2411.9	1492.6	1321.8	1349.8	1396.6	1408.3	1434.1	1438.7	1420.0
22.5°	4954.9	3934.9	2044.7	1291.4	1242.2	1296.0	1342.8	1356.9	1349.8	1335.8	1333.5
25°	4924.5	3724.4	1707.8	1158.0	1183.7	1242.2	1286.7	1260.9	1246.9	1249.3	1251.6
27.5°	4870.7	3457.7	1429.4	1064.4	1104.2	1190.8	1188.4	1179.1	1193.1	1181.4	1193.1
30°	4861.3	3191.0	1200.1	980.2	1045.7	1108.9	1113.6	1129.9	1146.3	1125.3	1146.3
32.5°	4875.4	2898.5	1036.4	928.8	1010.6	1013.0	1064.4	1080.8	1069.1	1022.3	1027.0
35°	4983.0	2674.0	917.1	900.7	954.5	956.8	1006.0	984.9	933.4	905.4	921.7
37.5°	5209.9	2486.8	860.9	874.9	879.6	910.0	912.4	870.3	874.9	872.6	882.0
40°	5500.0	2344.1	821.1	851.5	846.9	867.9	783.7	807.1	828.2	835.2	839.9
42.5°	5698.8	2241.2	795.4	814.1	804.8	767.3	720.5	743.9	760.3	786.0	790.7
45°	5787.7	2159.3	765.0	748.6	748.6	680.8	662.1	666.7	704.2	732.2	727.6
47.5°	5642.7	2079.7	711.2	662.1	678.4	622.3	601.2	601.2	641.0	676.1	669.1
48°	5586.5	2047.0	713.5	643.3	655.0	612.9	591.9	587.2	631.6	664.4	664.4
50°	5308.1	1925.3	652.7	591.9	568.5	563.8	549.8	554.4	582.5	612.9	612.9
52.5°	4765.4	1663.3	552.1	507.7	465.5	493.6	500.6	491.3	505.3	533.4	531.0
55°	3977.0	1277.3	442.2	421.1	388.3	418.8	432.8	421.1	407.1	428.1	428.1
57.5°	2547.6	687.8	353.3	357.9	325.2	355.6	367.3	339.2	313.5	329.9	327.5
60°	1148.7	411.7	290.1	283.1	262.0	297.1	315.8	283.1	248.0	259.7	271.4
62.5°	430.5	292.4	219.9	215.2	210.5	243.3	252.7	226.9	191.8	198.9	201.2
65°	315.8	257.3	175.5	159.1	168.4	191.8	187.2	161.4	138.0	138.0	142.7
67.5°	269.0	224.6	142.7	124.0	124.0	126.3	117.0	102.9	95.9	100.6	105.3
70°	210.5	177.8	112.3	95.9	86.6	77.2	67.8	65.5	58.5	65.5	63.2
72.5°	135.7	119.3	86.6	72.5	65.5	53.8	44.4	42.1	35.1	32.8	32.8
75°	72.5	72.5	67.8	58.5	51.5	42.1	35.1	28.1	18.7	14.0	14.0
77.5°	51.5	56.1	60.8	56.1	46.8	35.1	28.1	18.7	9.4	4.7	4.7
80°	49.1	56.1	60.8	53.8	46.8	35.1	25.7	14.0	7.0	2.3	2.3
82.5°	44.4	51.5	56.1	49.1	42.1	30.4	23.4	14.0	7.0	2.3	2.3
85°	9.4	11.7	14.0	14.0	16.4	21.1	16.4	11.7	4.7	2.3	2.3
87.5°	7.0	7.0	7.0	7.0	7.0	7.0	4.7	4.7	2.3	2.3	2.3
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)