

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: P647352

Luminaire Tested: **GALN-SA3D-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15416.5 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

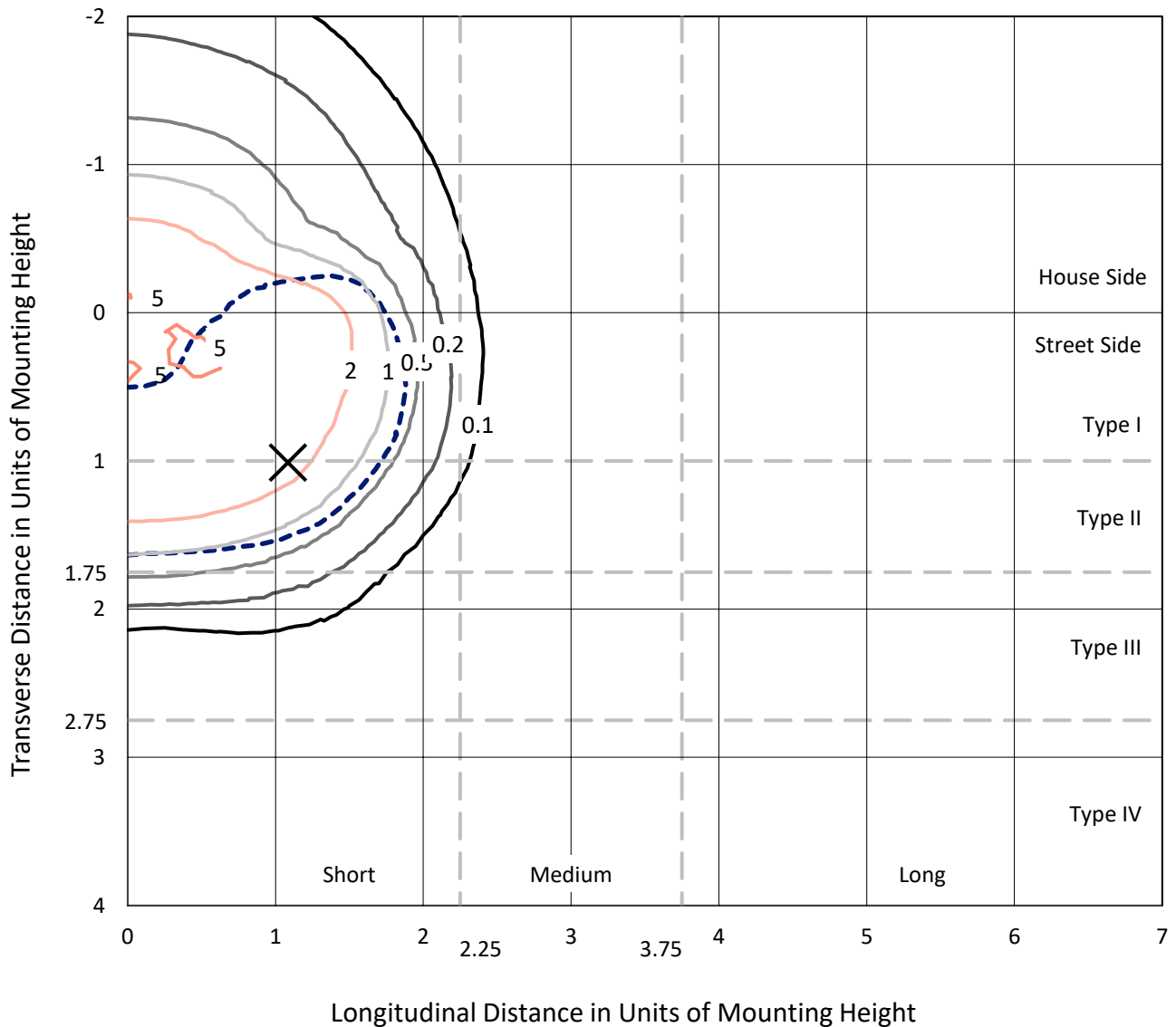
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

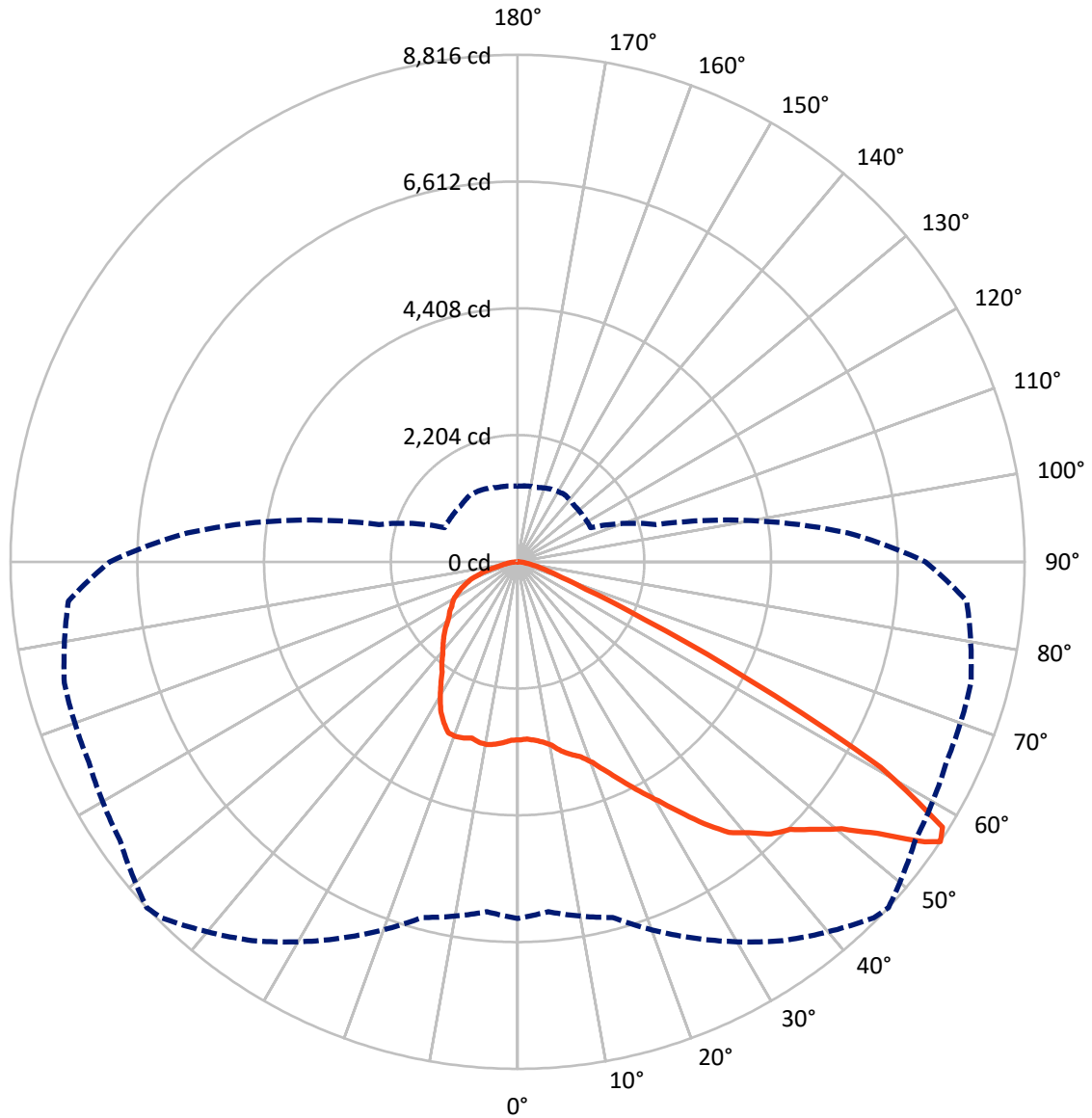
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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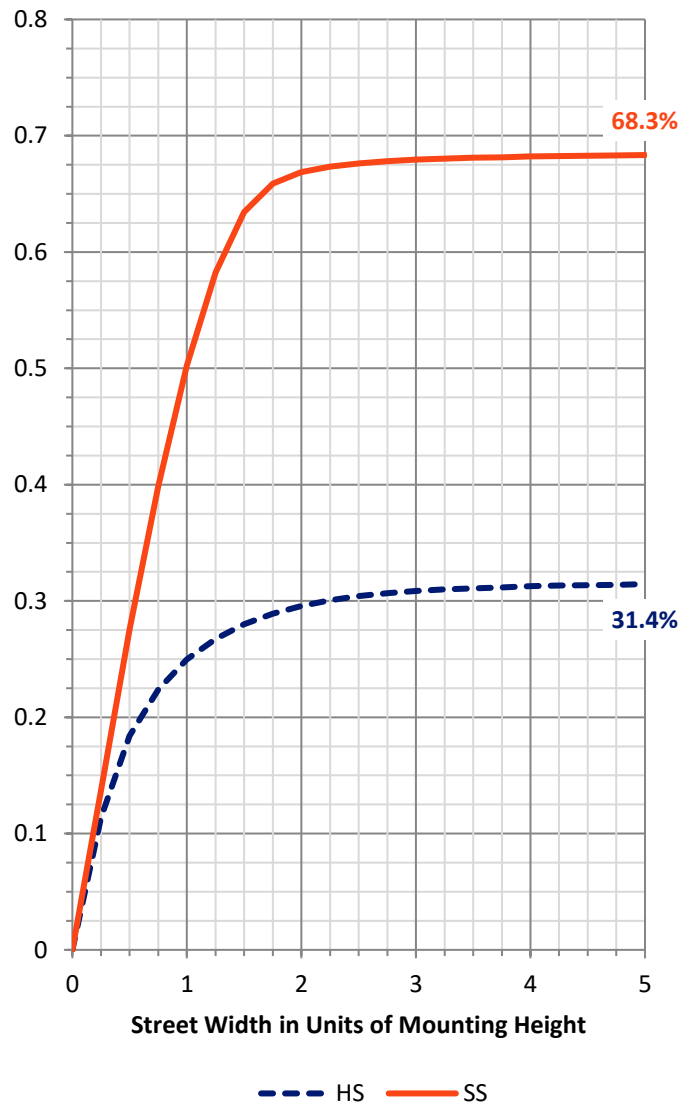
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4885.3	0.0	4885.3
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	10531.2	0.0	10531.2
	% Fixture	68.3	0.0	68.3
Total	Lumens	15416.5	0.0	15416.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.7	2.0
10°-20°	951.8	6.2
20°-30°	1682.6	10.9
30°-40°	2527.2	16.4
40°-50°	3468.3	22.5
50°-60°	4132.0	26.8
60°-70°	1768.3	11.5
70°-80°	500.4	3.2
80°-90°	84.2	0.5
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°	15416.5	100.0
0°-180°	15416.5	100.0

Coefficient of Utilization



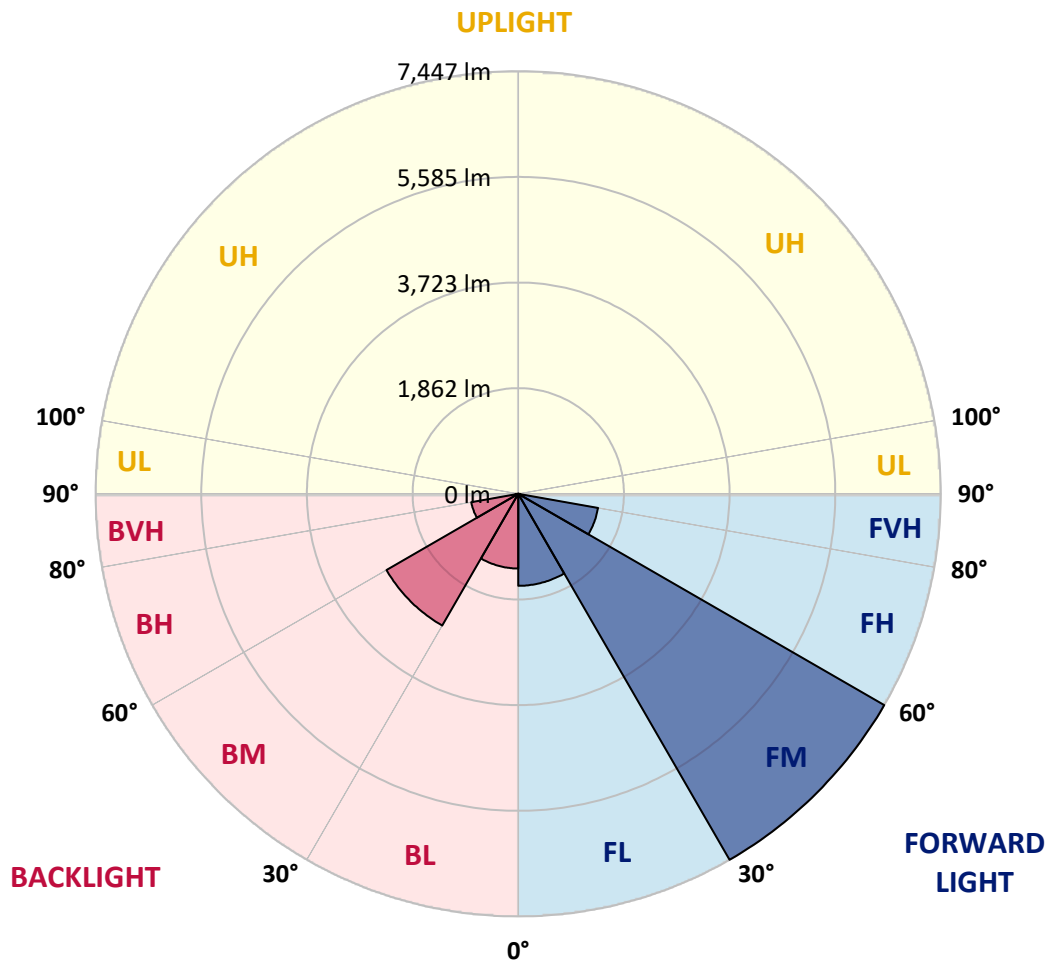
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1620.8	10.5			
FM (30°-60°)	7446.5	48.3			
FH (60°-80°)	1428.1	9.3			G1/1800
FVH (80°-90°)	35.7	0.2			G1/100
BL (0°-30°)	1315.3	8.5	B3/2500		
BM (30°-60°)	2681.0	17.4	B3/5000		
BH (60°-80°)	840.5	5.5	B2/1000		G2/1000
BVH (80°-90°)	48.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3096.7	3096.7	3096.7	3096.7	3096.7	3096.7	3096.7	3096.7	3096.7	3096.7	3096.7
2.5°	3084.9	3079.0	3075.1	3106.6	3094.7	3096.7	3084.9	3096.7	3104.6	3086.9	3112.4
5°	3079.0	3096.7	3080.9	3090.8	3116.3	3108.5	3116.3	3140.0	3134.0	3128.2	3120.3
7.5°	3134.0	3136.0	3147.8	3151.7	3159.6	3151.7	3163.6	3185.2	3179.3	3145.9	3149.8
10°	3212.7	3216.6	3218.6	3240.2	3254.0	3255.9	3242.2	3222.5	3220.6	3265.8	3234.3
12.5°	3303.2	3293.3	3316.9	3324.8	3340.5	3358.2	3375.9	3334.6	3360.2	3362.1	3324.8
15°	3434.9	3444.7	3417.2	3417.2	3423.1	3425.1	3474.2	3454.5	3450.6	3429.0	3444.7
17.5°	3631.5	3564.7	3562.6	3535.2	3531.3	3547.0	3564.7	3580.3	3633.4	3590.2	3505.6
20°	3775.0	3790.7	3733.7	3700.3	3706.3	3741.6	3723.9	3794.7	3832.1	3761.3	3678.7
22.5°	4028.7	3975.6	3989.3	3914.6	3920.6	3957.9	3956.0	4028.7	4050.3	3938.3	3818.3
25°	4199.7	4185.9	4197.7	4138.8	4146.6	4176.1	4223.3	4343.2	4307.8	4184.0	3906.8
27.5°	4449.4	4421.9	4412.0	4390.4	4382.6	4461.2	4516.3	4644.1	4618.5	4437.7	4064.1
30°	4705.0	4687.4	4697.1	4608.7	4640.1	4807.2	4823.0	4998.0	4986.2	4667.7	4239.0
32.5°	4882.0	4891.8	4909.5	4860.3	4999.9	5133.7	5186.7	5385.3	5395.2	5062.9	4577.3
35°	5167.1	5133.7	5143.4	5200.5	5265.4	5509.2	5595.7	5727.4	5810.0	5477.7	4901.7
37.5°	5346.0	5381.4	5340.1	5430.6	5599.6	5892.6	5971.2	6106.9	6193.4	5886.7	5344.1
40°	5625.2	5568.1	5597.7	5662.6	5835.5	6217.0	6195.4	6334.9	6362.5	6234.7	5756.9
42.5°	5926.0	5898.5	5857.2	6004.7	6150.2	6427.4	6470.6	6405.7	6545.3	6574.9	6346.8
45°	6285.8	6319.3	6325.2	6329.1	6456.9	6698.7	6639.8	6582.7	6743.9	6958.2	6712.5
47.5°	6620.0	6513.9	6590.6	6696.8	6877.6	6879.6	6948.4	6812.7	6983.8	7174.6	7042.8
50°	6732.2	6681.0	6783.3	6983.8	7263.0	7292.5	7300.4	7107.7	7196.2	7347.5	7156.9
52.5°	6688.9	6671.2	6932.7	7243.4	7652.3	7801.7	7841.0	7603.2	7652.3	7583.5	7408.5
55°	6482.5	6535.5	6799.0	7432.1	8059.3	8521.3	8596.1	8295.3	7982.6	8035.7	7843.0
56°	6199.3	6106.9	6401.8	7217.8	8041.6	8755.3	8816.3	8440.7	8228.4	8159.6	7839.1
57.5°	5259.5	5139.5	5526.9	6494.2	7595.3	8666.9	8712.0	8501.7	8187.1	8047.5	7266.9
60°	3079.0	3138.0	3629.5	4478.9	5859.2	7105.7	7257.1	7410.5	7200.1	6574.9	5408.9
62.5°	1486.4	1449.1	1801.0	2567.8	3570.6	4535.9	4490.7	4921.3	5157.2	4671.6	3415.2
65°	778.6	774.7	983.1	1401.9	1962.2	2383.0	2424.2	2656.2	2980.7	2406.6	1734.2
67.5°	572.1	587.9	692.1	985.0	1262.3	1287.8	1281.9	1398.0	1429.4	1209.2	1065.7
70°	448.3	456.2	532.8	749.1	939.8	841.5	823.8	837.6	930.0	969.4	922.1
72.5°	324.4	332.3	397.1	505.3	587.9	574.1	585.9	662.6	776.7	817.9	768.7
75°	216.3	222.1	257.5	308.7	348.0	375.5	397.1	485.6	591.8	615.4	591.8
77.5°	149.4	155.3	178.9	218.2	222.1	239.8	247.7	289.0	353.9	383.4	367.7
80°	84.6	84.6	96.3	112.0	137.7	161.2	165.1	198.6	228.1	247.7	251.7
82.5°	39.3	41.3	51.1	68.8	90.4	112.0	116.0	137.7	159.3	178.9	184.8
85°	19.7	21.6	29.5	41.3	55.0	66.9	64.9	66.9	70.8	66.9	68.8
87.5°	5.9	5.9	7.8	9.9	7.8	9.9	9.9	11.8	13.8	15.7	17.7
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°	3096.7	3096.7	3096.7	3096.7	3096.7	3096.7	3096.7	3096.7	3096.7	3096.7	3096.7
2.5°	3114.4	3120.3	3080.9	3118.3	3104.6	3102.6	3130.1	3126.2	3136.0	3132.1	3108.5
5°	3116.3	3102.6	3143.9	3106.6	3124.2	3161.6	3136.0	3195.0	3165.5	3185.2	3141.9
7.5°	3177.3	3181.3	3173.4	3189.1	3181.3	3198.9	3185.2	3198.9	3175.4	3177.3	3216.6
10°	3230.4	3218.6	3232.4	3212.7	3226.5	3220.6	3189.1	3179.3	3187.1	3177.3	3202.9
12.5°	3328.7	3307.1	3297.3	3273.6	3257.9	3198.9	3149.8	3122.3	3159.6	3165.5	3153.7
15°	3429.0	3430.9	3385.7	3332.6	3234.3	3145.9	3157.7	3167.5	3167.5	3183.2	3153.7
17.5°	3491.9	3491.9	3450.6	3344.4	3244.2	3193.1	3181.3	3149.8	3122.3	3118.3	3116.3
20°	3602.0	3568.6	3474.2	3342.5	3240.2	3216.6	3128.2	3053.5	2996.5	2976.7	2974.8
22.5°	3727.9	3643.3	3511.6	3346.4	3234.3	3200.9	3035.8	2923.6	2821.5	2778.2	2784.1
25°	3843.8	3708.2	3533.2	3328.7	3212.7	3051.5	2866.6	2711.4	2605.2	2569.8	2552.1
27.5°	3924.5	3777.0	3533.2	3344.4	3132.1	2884.3	2695.6	2497.0	2404.6	2381.0	2384.9
30°	4032.6	3863.5	3594.1	3311.0	2970.9	2668.1	2441.9	2312.2	2257.2	2237.5	2251.3
32.5°	4286.2	4089.6	3678.7	3230.4	2780.1	2451.8	2269.0	2196.2	2115.6	2076.3	2062.5
35°	4561.5	4303.9	3761.3	3094.7	2565.8	2255.2	2141.1	2074.3	1977.9	1934.7	1942.5
37.5°	4950.8	4579.2	3767.2	2870.6	2333.8	2145.1	2040.9	1936.7	1858.1	1791.2	1771.5
40°	5475.8	4954.7	3753.4	2634.6	2147.1	2015.3	1938.6	1808.9	1720.4	1673.2	1683.1
42.5°	5937.8	5395.2	3696.4	2367.2	1977.9	1926.8	1840.4	1712.5	1626.0	1576.9	1572.9
45°	6327.1	5719.6	3588.3	2139.2	1836.4	1828.5	1728.2	1630.0	1561.1	1515.9	1535.5
47.5°	6686.9	5981.0	3425.1	1911.1	1706.6	1722.4	1626.0	1565.1	1521.8	1480.5	1478.5
50°	6816.7	5977.1	3281.6	1722.4	1602.4	1594.6	1590.6	1525.8	1480.5	1445.1	1460.8
52.5°	7033.0	6044.0	3126.2	1592.6	1508.1	1510.0	1523.8	1476.6	1425.5	1403.8	1423.5
55°	7343.6	6053.8	2784.1	1441.2	1429.4	1443.1	1443.1	1411.7	1368.4	1350.8	1340.9
56°	7090.0	5760.8	2497.0	1401.9	1390.1	1390.1	1427.4	1392.0	1338.9	1325.2	1313.4
57.5°	6539.5	5047.1	2090.1	1354.7	1337.0	1364.5	1384.2	1346.8	1297.7	1278.0	1289.8
60°	4510.4	3415.2	1570.9	1252.4	1252.4	1297.7	1313.4	1258.4	1236.7	1234.7	1219.1
62.5°	2632.7	1989.8	1228.8	1160.0	1163.9	1201.4	1213.1	1181.6	1154.1	1187.6	1203.3
65°	1396.0	1187.6	1053.8	1061.7	1063.7	1093.2	1144.3	1142.3	1140.4	1150.2	1152.2
67.5°	1010.6	987.0	957.5	949.6	953.6	975.2	1026.4	1065.7	1063.7	1040.1	1022.4
70°	900.5	867.1	849.4	851.4	835.6	861.1	902.5	928.0	882.8	855.3	843.4
72.5°	749.1	739.3	727.5	729.4	698.0	692.1	644.9	644.9	633.1	625.2	639.0
75°	572.1	568.2	574.1	564.3	530.9	495.5	467.9	442.4	403.1	387.4	379.4
77.5°	361.7	373.6	387.4	365.7	352.0	326.4	298.9	273.3	241.9	224.2	224.2
80°	245.8	255.6	265.4	261.5	245.8	222.1	200.5	173.0	151.4	137.7	135.7
82.5°	186.8	194.7	208.4	192.7	177.0	157.3	139.6	120.0	100.3	84.6	84.6
85°	66.9	76.7	84.6	92.4	98.3	100.3	86.5	70.8	57.0	45.3	43.2
87.5°	17.7	19.7	21.6	19.7	19.7	19.7	21.6	19.7	17.7	13.8	13.8
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)