

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: P528946

Luminaire Tested: **GALN-SA4A-740-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528946
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-SA4A-740-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA 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: 15424 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

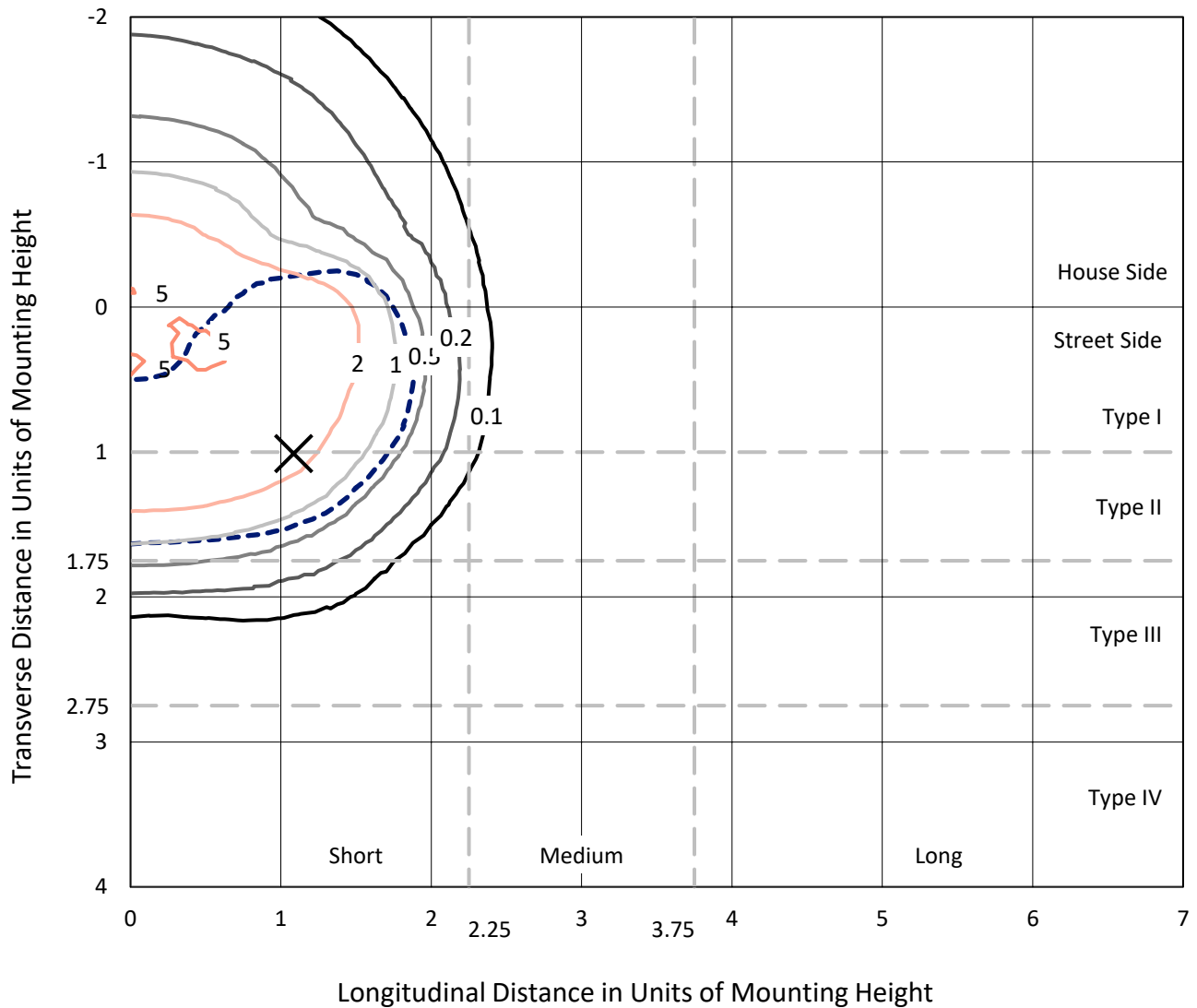
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

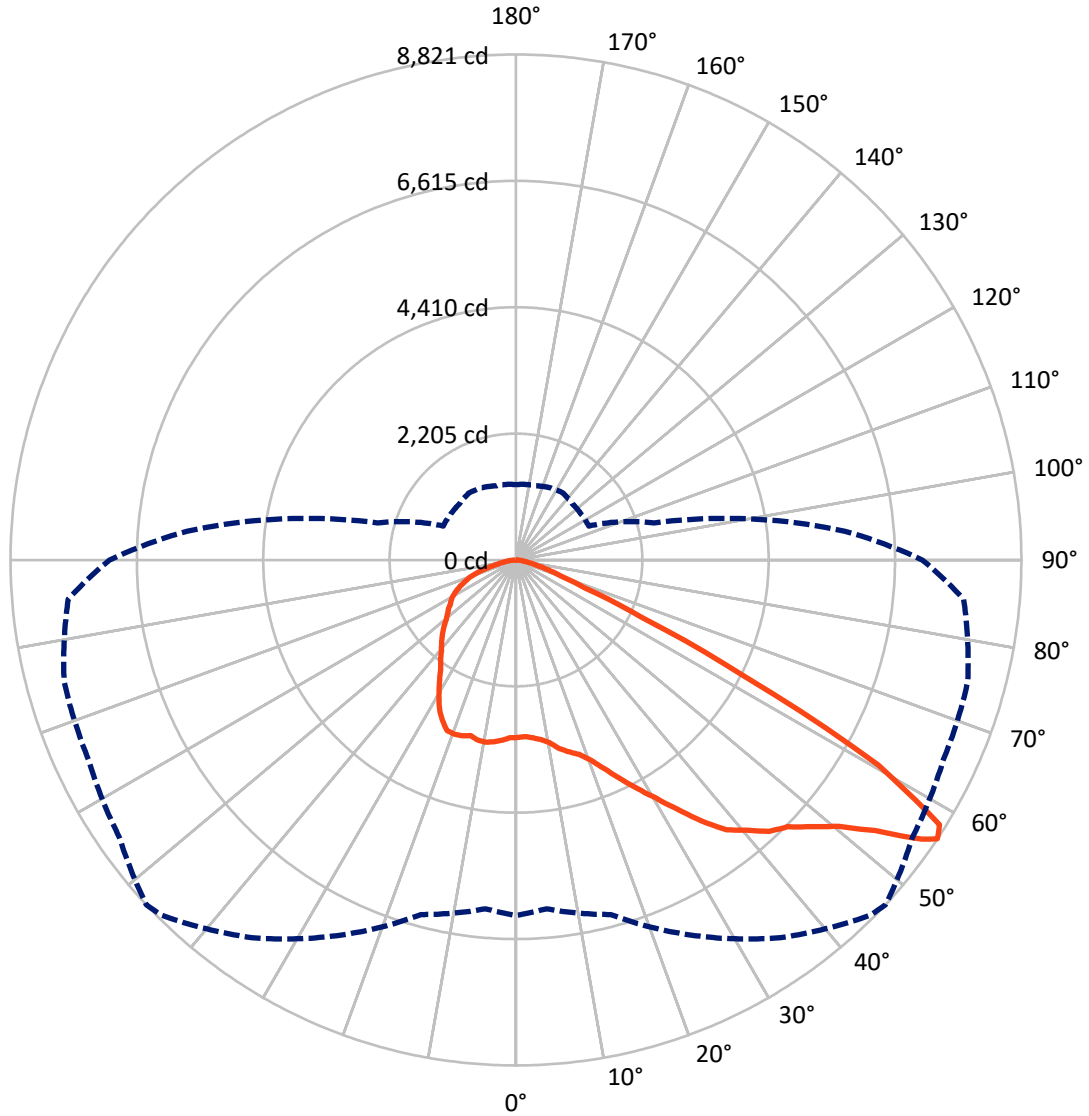
✕ Max cd
 - - - 1/2 Max cd



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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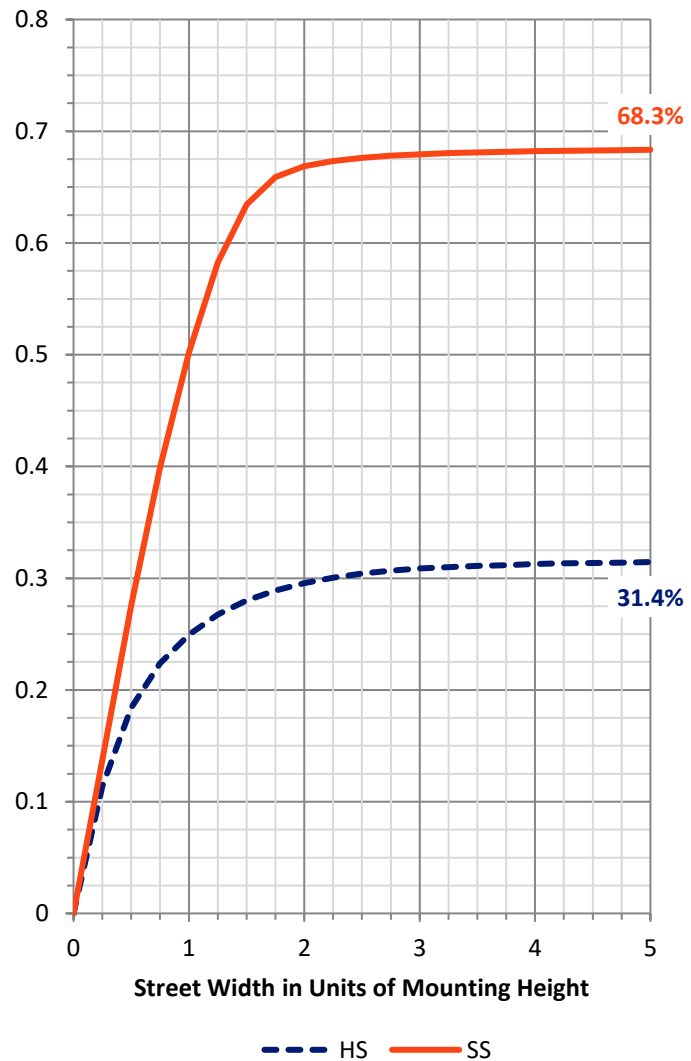
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4887.7	0.0	4887.7
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	10536.3	0.0	10536.3
	% Fixture	68.3	0.0	68.3
Total	Lumens	15424.0	0.0	15424.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.9	2.0
10°-20°	952.3	6.2
20°-30°	1683.4	10.9
30°-40°	2528.4	16.4
40°-50°	3470.0	22.5
50°-60°	4134.0	26.8
60°-70°	1769.1	11.5
70°-80°	500.7	3.2
80°-90°	84.3	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°	15424.0	100.0
0°-180°	15424.0	100.0



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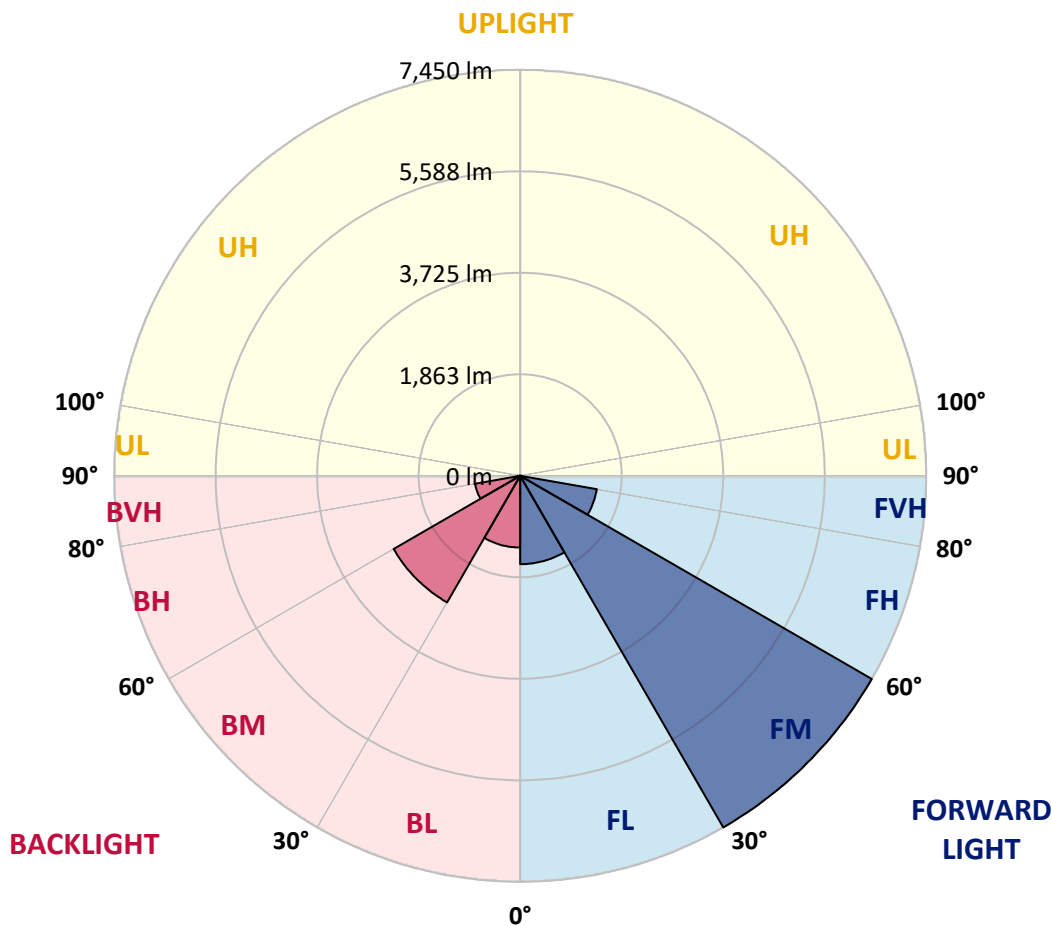
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1621.6	10.5			
FM (30°-60°)	7450.1	48.3			
FH (60°-80°)	1428.8	9.3			G1/1800
FVH (80°-90°)	35.8	0.2			G1/100
BL (0°-30°)	1316.0	8.5	B3/2500		
BM (30°-60°)	2682.3	17.4	B3/5000		
BH (60°-80°)	840.9	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°	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2
2.5°	3086.4	3080.5	3076.6	3108.0	3096.2	3098.2	3086.4	3098.2	3106.1	3088.4	3113.9
5°	3080.5	3098.2	3082.5	3092.3	3117.9	3110.0	3117.9	3141.5	3135.6	3129.7	3121.8
7.5°	3135.6	3137.6	3149.4	3153.3	3161.2	3153.3	3165.1	3186.7	3180.8	3147.4	3151.3
10°	3214.3	3218.2	3220.2	3241.8	3255.6	3257.5	3243.8	3224.1	3222.1	3267.4	3235.9
12.5°	3304.8	3294.9	3318.5	3326.4	3342.1	3359.8	3377.5	3336.2	3361.8	3363.8	3326.4
15°	3436.6	3446.4	3418.9	3418.9	3424.8	3426.7	3475.9	3456.2	3452.3	3430.7	3446.4
17.5°	3633.3	3566.4	3564.4	3536.9	3532.9	3548.7	3566.4	3582.1	3635.2	3592.0	3507.4
20°	3776.9	3792.6	3735.6	3702.1	3708.0	3743.4	3725.7	3796.5	3833.9	3763.1	3680.5
22.5°	4030.6	3977.5	3991.3	3916.5	3922.4	3959.8	3957.8	4030.6	4052.3	3940.1	3820.1
25°	4201.8	4188.0	4199.8	4140.8	4148.7	4178.2	4225.4	4345.4	4310.0	4186.0	3908.7
27.5°	4451.6	4424.1	4414.2	4392.6	4384.7	4463.4	4518.5	4646.3	4620.8	4439.8	4066.0
30°	4707.3	4689.6	4699.4	4610.9	4642.4	4809.6	4825.3	5000.4	4988.6	4669.9	4241.1
32.5°	4884.4	4894.2	4911.9	4862.7	5002.4	5136.1	5189.3	5387.9	5397.8	5065.3	4579.5
35°	5169.6	5136.1	5146.0	5203.0	5267.9	5511.9	5598.4	5730.2	5812.8	5480.4	4904.0
37.5°	5348.6	5384.0	5342.7	5433.2	5602.4	5895.5	5974.1	6109.9	6196.4	5889.6	5346.6
40°	5627.9	5570.9	5600.4	5665.3	5838.4	6220.0	6198.4	6338.1	6365.6	6237.7	5759.7
42.5°	5928.9	5901.4	5860.0	6007.6	6153.1	6430.5	6473.8	6408.9	6548.5	6578.0	6349.9
45°	6288.9	6322.3	6328.2	6332.2	6460.0	6702.0	6643.0	6585.9	6747.2	6961.6	6715.7
47.5°	6623.3	6517.1	6593.8	6700.0	6881.0	6883.0	6951.8	6816.1	6987.2	7178.0	7046.2
50°	6735.4	6684.3	6786.6	6987.2	7266.5	7296.0	7303.9	7111.1	7199.7	7351.1	7160.3
52.5°	6692.1	6674.4	6936.1	7246.9	7656.0	7805.5	7844.9	7606.9	7656.0	7587.2	7412.1
55°	6485.6	6538.7	6802.3	7435.7	8063.2	8525.5	8600.2	8299.3	7986.5	8039.6	7846.8
56°	6202.3	6109.9	6404.9	7221.3	8045.5	8759.6	8820.6	8444.8	8232.4	8163.5	7842.9
57.5°	5262.0	5142.0	5529.6	6497.4	7599.0	8671.1	8716.3	8505.8	8191.1	8051.4	7270.5
60°	3080.5	3139.5	3631.3	4481.1	5862.0	7109.2	7260.6	7414.1	7203.6	6578.0	5411.5
62.5°	1487.1	1449.8	1801.9	2569.1	3572.3	4538.1	4492.9	4923.7	5159.8	4673.9	3416.9
65°	779.0	775.0	983.6	1402.6	1963.2	2384.1	2425.5	2657.6	2982.2	2407.8	1735.0
67.5°	572.4	588.2	692.4	985.5	1262.9	1288.5	1282.6	1398.6	1430.1	1209.8	1066.2
70°	448.5	456.4	533.1	749.5	940.3	841.9	824.2	838.0	930.4	969.8	922.6
72.5°	324.6	332.4	397.4	505.5	588.2	574.4	586.2	662.9	777.0	818.3	769.1
75°	216.4	222.3	257.7	308.8	348.2	375.7	397.4	485.9	592.1	615.7	592.1
77.5°	149.5	155.4	179.0	218.4	222.3	240.0	247.9	289.2	354.1	383.6	367.9
80°	84.6	84.6	96.4	112.1	137.7	161.3	165.2	198.7	228.2	247.9	251.8
82.5°	39.3	41.3	51.1	68.8	90.5	112.1	116.1	137.7	159.3	179.0	184.9
85°	19.7	21.6	29.5	41.3	55.1	66.9	64.9	66.9	70.8	66.9	68.8
87.5°	5.9	5.9	7.9	9.8	7.9	9.8	9.8	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°	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2	3098.2
2.5°	3115.9	3121.8	3082.5	3119.9	3106.1	3104.1	3131.7	3127.7	3137.6	3133.6	3110.0
5°	3117.9	3104.1	3145.4	3108.0	3125.8	3163.1	3137.6	3196.6	3167.1	3186.7	3143.5
7.5°	3178.9	3182.8	3174.9	3190.7	3182.8	3200.5	3186.7	3200.5	3176.9	3178.9	3218.2
10°	3232.0	3220.2	3233.9	3214.3	3228.0	3222.1	3190.7	3180.8	3188.7	3178.9	3204.4
12.5°	3330.3	3308.7	3298.9	3275.3	3259.5	3200.5	3151.3	3123.8	3161.2	3167.1	3155.3
15°	3430.7	3432.6	3387.4	3334.3	3235.9	3147.4	3159.2	3169.0	3169.0	3184.8	3155.3
17.5°	3493.6	3493.6	3452.3	3346.1	3245.7	3194.6	3182.8	3151.3	3123.8	3119.9	3117.9
20°	3603.8	3570.3	3475.9	3344.1	3241.8	3218.2	3129.7	3054.9	2997.9	2978.2	2976.3
22.5°	3729.7	3645.1	3513.3	3348.0	3235.9	3202.5	3037.2	2925.1	2822.8	2779.5	2785.4
25°	3845.7	3710.0	3534.9	3330.3	3214.3	3053.0	2868.1	2712.7	2606.4	2571.0	2553.3
27.5°	3926.4	3778.8	3534.9	3346.1	3133.6	2885.8	2696.9	2498.2	2405.8	2382.2	2386.1
30°	4034.6	3865.4	3595.9	3312.6	2972.3	2669.4	2443.2	2313.3	2258.3	2238.6	2252.4
32.5°	4288.3	4091.6	3680.5	3232.0	2781.5	2453.0	2270.1	2197.3	2116.6	2077.3	2063.5
35°	4563.7	4306.0	3763.1	3096.2	2567.1	2256.3	2142.2	2075.3	1978.9	1935.6	1943.5
37.5°	4953.2	4581.4	3769.0	2872.0	2335.0	2146.1	2041.9	1937.6	1858.9	1792.0	1772.4
40°	5478.4	4957.1	3755.2	2635.9	2148.1	2016.3	1939.6	1809.7	1721.2	1674.0	1683.9
42.5°	5940.7	5397.8	3698.2	2368.4	1978.9	1927.8	1841.2	1713.4	1626.8	1577.6	1573.7
45°	6330.2	5722.4	3590.0	2140.2	1837.3	1829.4	1729.1	1630.7	1561.9	1516.6	1536.3
47.5°	6690.2	5984.0	3426.7	1912.0	1707.5	1723.2	1626.8	1565.8	1522.6	1481.2	1479.3
50°	6820.0	5980.0	3283.1	1723.2	1603.2	1595.3	1591.4	1526.5	1481.2	1445.8	1461.6
52.5°	7036.4	6046.9	3127.7	1593.4	1508.8	1510.7	1524.5	1477.3	1426.2	1404.5	1424.2
55°	7347.2	6056.8	2785.4	1441.9	1430.1	1443.9	1443.9	1412.4	1369.1	1351.4	1341.6
56°	7093.4	5763.7	2498.2	1402.6	1390.8	1390.8	1428.1	1392.7	1339.6	1325.8	1314.0
57.5°	6542.6	5049.6	2091.0	1355.3	1337.6	1365.2	1384.9	1347.5	1298.3	1278.6	1290.4
60°	4512.6	3416.9	1571.7	1253.1	1253.1	1298.3	1314.0	1259.0	1237.3	1235.4	1219.6
62.5°	2634.0	1990.7	1229.4	1160.6	1164.5	1201.9	1213.7	1182.2	1154.7	1188.1	1203.9
65°	1396.7	1188.1	1054.4	1062.2	1064.2	1093.7	1144.9	1142.9	1140.9	1150.8	1152.7
67.5°	1011.1	987.5	958.0	950.1	954.1	975.7	1026.8	1066.2	1064.2	1040.6	1022.9
70°	900.9	867.5	849.8	851.8	836.0	861.6	902.9	928.5	883.2	855.7	843.9
72.5°	749.5	739.6	727.8	729.8	698.3	692.4	645.2	645.2	633.4	625.5	639.3
75°	572.4	568.5	574.4	564.6	531.1	495.7	468.2	442.6	403.3	387.5	379.7
77.5°	361.9	373.8	387.5	365.9	352.1	326.5	299.0	273.4	242.0	224.3	224.3
80°	245.9	255.7	265.6	261.6	245.9	222.3	200.6	173.1	151.5	137.7	135.7
82.5°	186.9	194.7	208.5	192.8	177.0	157.4	139.7	120.0	100.3	84.6	84.6
85°	66.9	76.7	84.6	92.5	98.4	100.3	86.6	70.8	57.0	45.2	43.3
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)