

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: P528773

Luminaire Tested: **GALN-SA3D-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528773
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-827-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 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: 12664 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

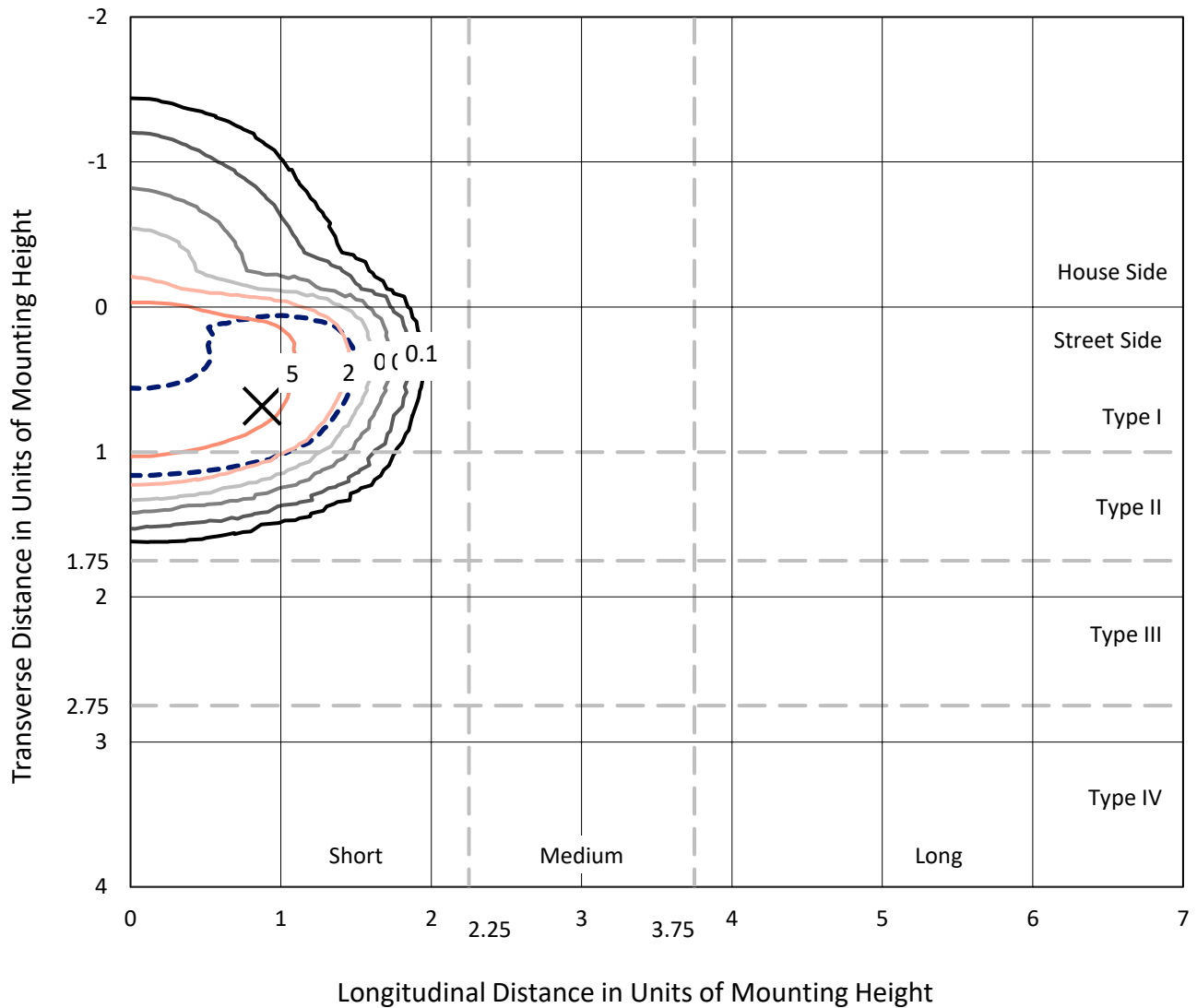
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

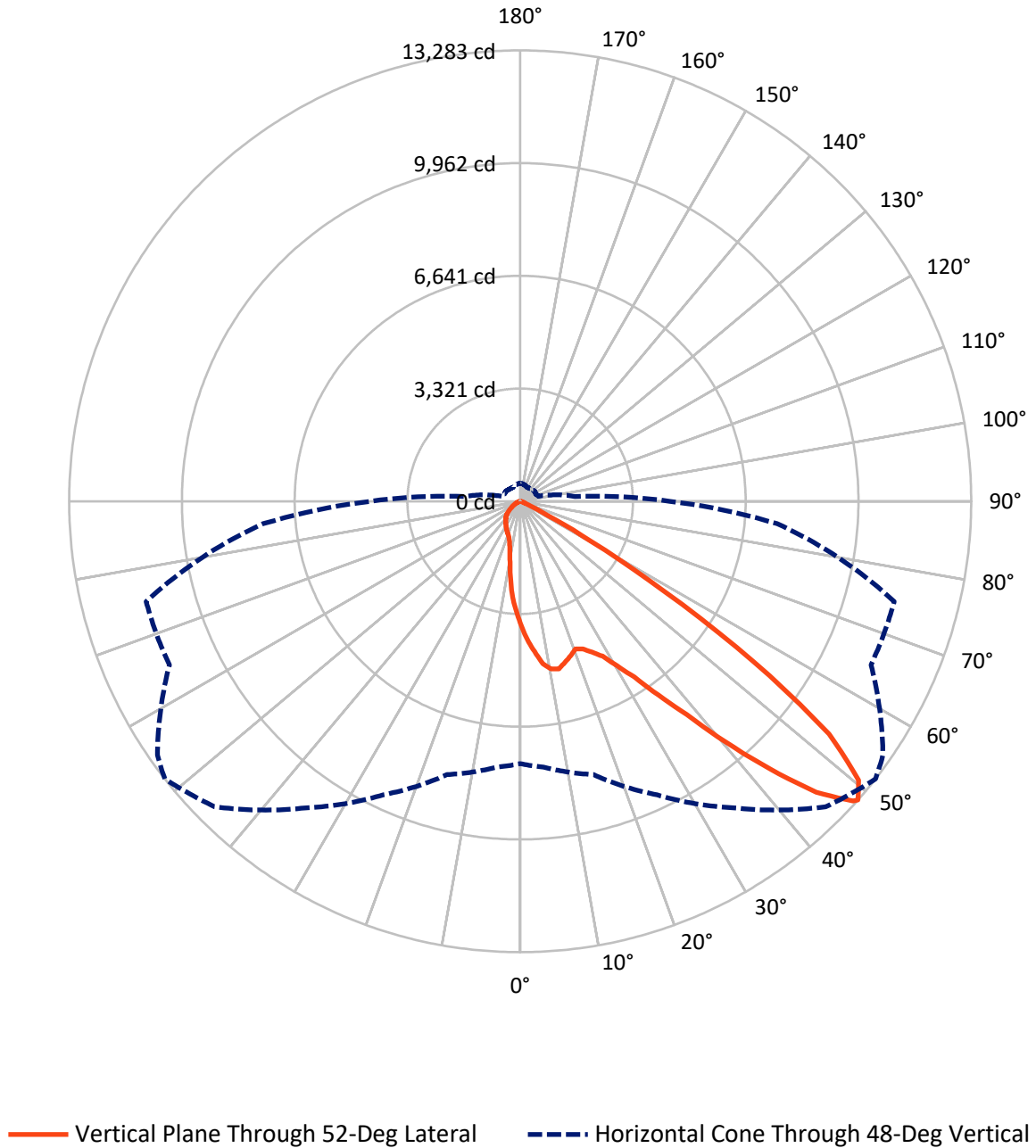
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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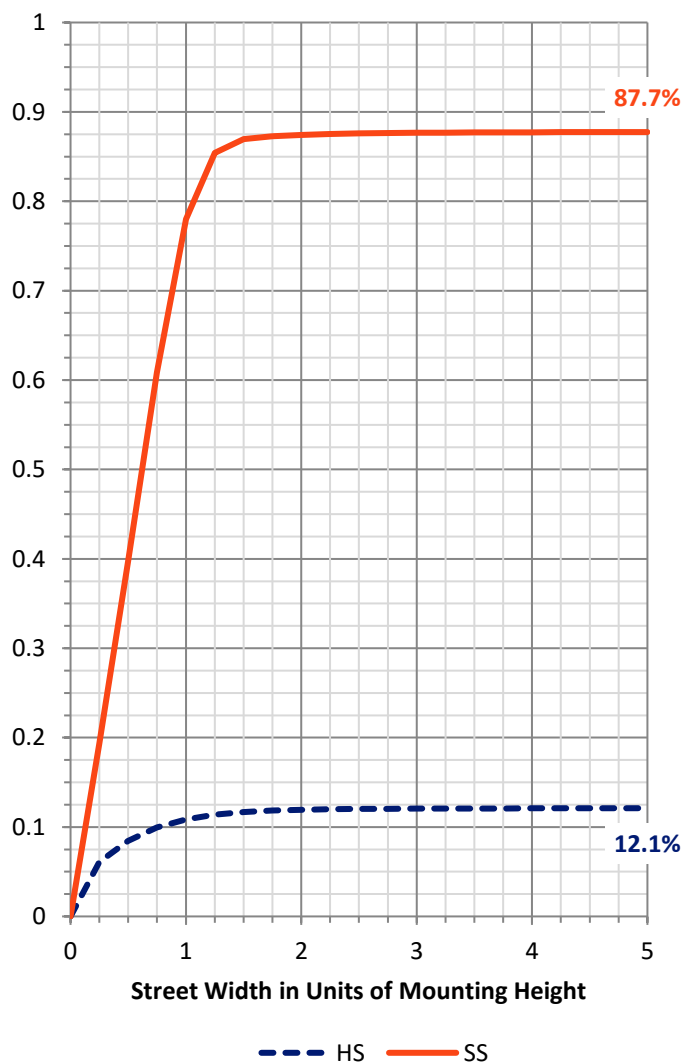
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1541.9	0.0	1541.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	11122.0	0.0	11122.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	12664.0	0.0	12664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.7	2.6
10°-20°	874.8	6.9
20°-30°	1493.6	11.8
30°-40°	2750.5	21.7
40°-50°	4271.5	33.7
50°-60°	2570.7	20.3
60°-70°	297.3	2.3
70°-80°	57.6	0.5
80°-90°	13.3	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°	12664.0	100.0
0°-180°	12664.0	100.0

Coefficient of Utilization



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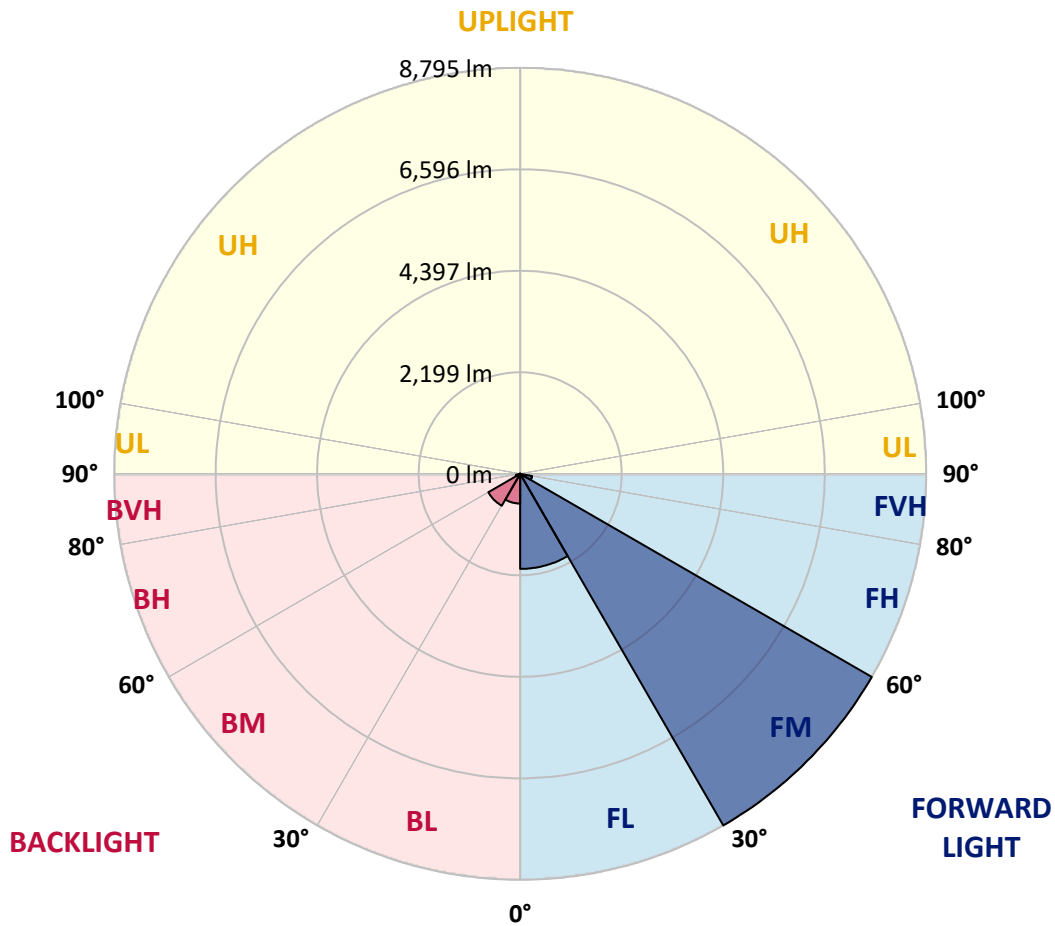
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2059.0	16.3			
FM (30°-60°)	8794.9	69.4			
FH (60°-80°)	261.8	2.1			G0/660
FVH (80°-90°)	6.3	0.0			G0/10
BL (0°-30°)	644.1	5.1	B2/1000		
BM (30°-60°)	797.8	6.3	B1/1000		
BH (60°-80°)	93.1	0.7	B0/110		G0/110
BVH (80°-90°)	7.0	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-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2
2.5°	4432.5	4331.0	4340.2	4273.8	4235.0	4172.2	4087.3	4070.7	3978.4	3852.8	3725.5
5°	4831.3	4807.3	4838.7	4742.7	4746.4	4643.0	4443.6	4447.3	4235.0	4030.1	3832.5
7.5°	4857.1	4801.7	4833.1	4918.0	4967.9	4949.4	4836.8	4739.0	4537.7	4236.8	3948.8
10°	4349.4	4454.7	4487.9	4628.2	4827.6	5038.0	5025.1	5030.7	4862.7	4469.4	4048.5
12.5°	4044.8	3974.7	4087.3	4172.2	4473.1	4881.1	5067.6	5108.2	5121.1	4694.7	4148.2
15°	3906.4	3906.4	3924.8	3948.8	4166.7	4543.3	4923.6	5041.7	5320.5	4990.0	4305.1
17.5°	3993.1	3989.5	4015.3	3965.5	4046.7	4336.5	4790.7	4925.4	5543.9	5279.9	4428.8
20°	4257.1	4270.1	4253.4	4109.5	4115.0	4332.8	4643.0	4855.3	5695.3	5531.0	4593.1
22.5°	4624.5	4631.9	4537.7	4380.8	4334.7	4441.8	4727.9	4890.4	5817.1	5831.9	4643.0
25°	5049.1	5019.6	5001.1	4779.6	4639.3	4731.6	4919.9	5014.0	5892.8	6090.3	4785.1
27.5°	5638.0	5579.0	5466.3	5268.8	5165.4	5034.4	5169.1	5324.2	6108.8	6452.2	4940.2
30°	6507.6	6455.9	6236.2	5981.4	5710.0	5580.8	5623.3	5708.2	6498.3	6871.2	5145.1
32.5°	7816.4	7707.5	7390.0	6904.5	6535.2	6178.9	6167.9	6258.3	6847.2	7450.9	5388.8
35°	9258.3	9225.0	8758.0	8257.7	7543.2	6993.1	7002.3	7050.3	7515.5	8211.5	5708.2
37.5°	10216.4	10399.2	10101.9	9564.7	8964.7	8178.3	7978.9	7995.5	8433.1	9112.4	6284.2
40°	10956.7	10801.6	10836.7	10711.2	10301.3	9765.9	9324.7	9238.0	9494.6	10109.3	6856.5
42.5°	10633.6	10641.0	10857.0	11154.2	11255.8	11217.0	10766.5	10602.2	10402.9	10925.3	7401.1
45°	9721.6	9911.8	10192.4	10978.8	11669.3	12317.3	12228.7	11955.4	11030.5	11571.4	7714.9
47.5°	8266.9	8259.5	8719.2	9741.9	11276.1	12793.6	13196.0	13004.0	11475.4	11499.4	7650.3
48°	7729.7	7862.6	8337.1	9540.7	11026.8	12723.4	13282.8	13041.0	11399.8	11403.4	7594.9
50°	5713.7	5689.7	6280.5	7757.4	9849.0	11955.4	12917.3	13105.6	11397.9	10917.9	7207.2
52.5°	3018.4	3121.8	3551.9	4877.4	6963.5	9784.4	11394.2	11687.8	10995.5	10124.1	6649.7
55°	1283.0	1159.4	1489.8	2202.4	3917.5	6537.1	8359.2	9012.7	9297.0	8959.2	5817.1
57.5°	457.8	500.3	576.0	828.9	1646.7	3577.8	4984.5	5492.2	6441.1	6574.0	3963.6
60°	293.5	299.1	323.1	380.3	618.4	1379.0	2364.9	2769.2	3199.3	3302.7	1849.8
62.5°	227.1	228.9	240.0	249.2	293.5	535.4	888.0	1052.3	1092.9	939.7	485.5
65°	190.1	192.0	195.7	195.7	208.6	251.1	310.1	341.5	332.3	328.6	275.1
67.5°	145.8	149.5	156.9	156.9	164.3	153.2	171.7	182.8	206.8	251.1	234.5
70°	114.5	116.3	121.8	125.5	125.5	110.8	123.7	134.8	151.4	186.5	184.6
72.5°	88.6	92.3	96.0	96.0	90.5	75.7	88.6	97.8	108.9	129.2	125.5
75°	68.3	68.3	70.2	57.2	44.3	38.8	53.5	64.6	81.2	84.9	70.2
77.5°	18.5	20.3	18.5	16.6	18.5	27.7	35.1	40.6	51.7	51.7	46.2
80°	0.0	1.8	5.5	11.1	18.5	25.8	31.4	35.1	40.6	44.3	42.5
82.5°	0.0	1.8	5.5	11.1	16.6	20.3	27.7	29.5	33.2	38.8	38.8
85°	0.0	1.8	3.7	7.4	11.1	12.9	12.9	11.1	11.1	9.2	7.4
87.5°	0.0	0.0	1.8	3.7	3.7	5.5	5.5	5.5	5.5	5.5	5.5
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°	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2
2.5°	3675.6	3618.4	3531.6	3395.0	3263.9	3179.0	3097.8	3007.3	2957.5	2953.8	2926.1
5°	3719.9	3590.7	3383.9	3149.5	2898.4	2682.4	2464.6	2322.4	2195.0	2124.9	2112.0
7.5°	3743.9	3575.9	3241.8	2848.6	2420.3	2067.6	1824.0	1644.9	1574.7	1523.0	1521.2
10°	3793.8	3550.1	3029.5	2449.8	1920.0	1563.7	1395.7	1314.4	1275.7	1260.9	1238.7
12.5°	3830.7	3502.1	2811.6	2040.0	1517.5	1296.0	1222.1	1203.7	1205.5	1212.9	1203.7
15°	3882.4	3459.6	2518.1	1674.4	1273.8	1166.7	1166.7	1170.4	1196.3	1200.0	1198.1
17.5°	3878.7	3376.5	2215.3	1379.0	1126.1	1111.4	1116.9	1152.0	1168.6	1174.1	1161.2
20°	3923.0	3299.0	1903.3	1177.8	1043.1	1065.2	1102.1	1111.4	1131.7	1135.4	1120.6
22.5°	3910.1	3105.2	1613.5	1019.1	980.3	1022.7	1059.7	1070.7	1065.2	1054.1	1052.3
25°	3886.1	2939.0	1347.7	913.8	934.1	980.3	1015.4	995.1	984.0	985.8	987.7
27.5°	3843.6	2728.6	1128.0	840.0	871.4	939.7	937.8	930.4	941.5	932.3	941.5
30°	3836.2	2518.1	947.1	773.5	825.2	875.1	878.8	891.7	904.6	888.0	904.6
32.5°	3847.3	2287.3	817.8	732.9	797.5	799.4	840.0	852.9	843.7	806.8	810.4
35°	3932.2	2110.1	723.7	710.8	753.2	755.1	793.8	777.2	736.6	714.4	727.4
37.5°	4111.3	1962.4	679.4	690.4	694.1	718.1	720.0	686.8	690.4	688.6	696.0
40°	4340.2	1849.8	648.0	672.0	668.3	684.9	618.4	636.9	653.5	659.1	662.8
42.5°	4497.1	1768.6	627.7	642.4	635.1	605.5	568.6	587.1	600.0	620.3	624.0
45°	4567.3	1704.0	603.7	590.8	590.8	537.2	522.5	526.1	555.7	577.8	574.1
47.5°	4452.8	1641.2	561.2	522.5	535.4	491.1	474.5	474.5	505.8	533.5	528.0
48°	4408.5	1615.4	563.1	507.7	516.9	483.7	467.1	463.4	498.5	524.3	524.3
50°	4188.8	1519.4	515.1	467.1	448.6	444.9	433.8	437.5	459.7	483.7	483.7
52.5°	3760.5	1312.6	435.7	400.6	367.4	389.5	395.1	387.7	398.8	420.9	419.1
55°	3138.4	1008.0	348.9	332.3	306.5	330.5	341.5	332.3	321.2	337.8	337.8
57.5°	2010.4	542.8	278.8	282.5	256.6	280.6	289.8	267.7	247.4	260.3	258.5
60°	906.4	324.9	228.9	223.4	206.8	234.5	249.2	223.4	195.7	204.9	214.1
62.5°	339.7	230.8	173.5	169.8	166.2	192.0	199.4	179.1	151.4	156.9	158.8
65°	249.2	203.1	138.5	125.5	132.9	151.4	147.7	127.4	108.9	108.9	112.6
67.5°	212.3	177.2	112.6	97.8	97.8	99.7	92.3	81.2	75.7	79.4	83.1
70°	166.2	140.3	88.6	75.7	68.3	60.9	53.5	51.7	46.2	51.7	49.8
72.5°	107.1	94.2	68.3	57.2	51.7	42.5	35.1	33.2	27.7	25.8	25.8
75°	57.2	57.2	53.5	46.2	40.6	33.2	27.7	22.2	14.8	11.1	11.1
77.5°	40.6	44.3	48.0	44.3	36.9	27.7	22.2	14.8	7.4	3.7	3.7
80°	38.8	44.3	48.0	42.5	36.9	27.7	20.3	11.1	5.5	1.8	1.8
82.5°	35.1	40.6	44.3	38.8	33.2	24.0	18.5	11.1	5.5	1.8	1.8
85°	7.4	9.2	11.1	11.1	12.9	16.6	12.9	9.2	3.7	1.8	1.8
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	3.7	3.7	1.8	1.8	1.8
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)