

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: P528883

Luminaire Tested: **GALN-SA4A-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-730-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9635 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

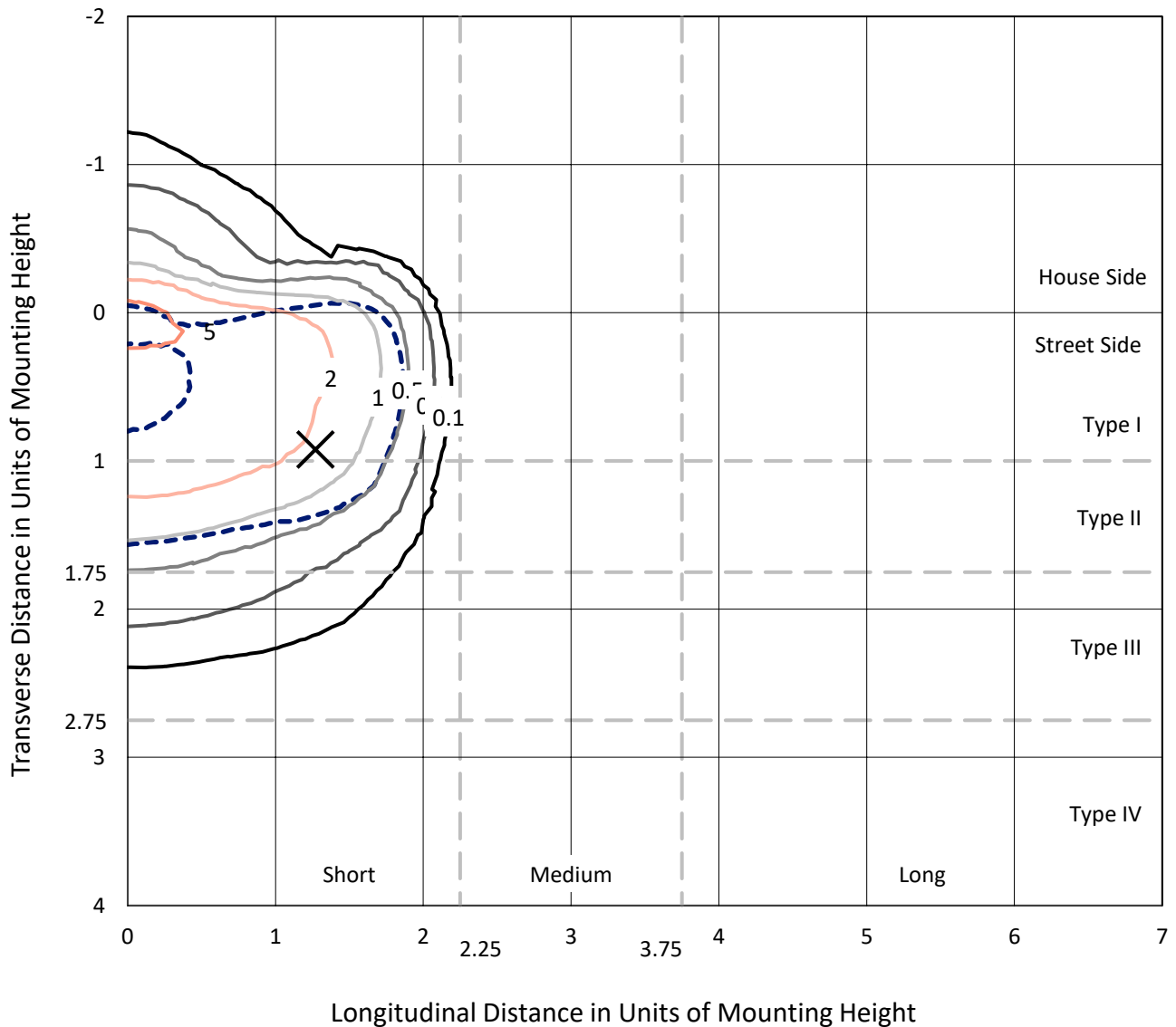
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

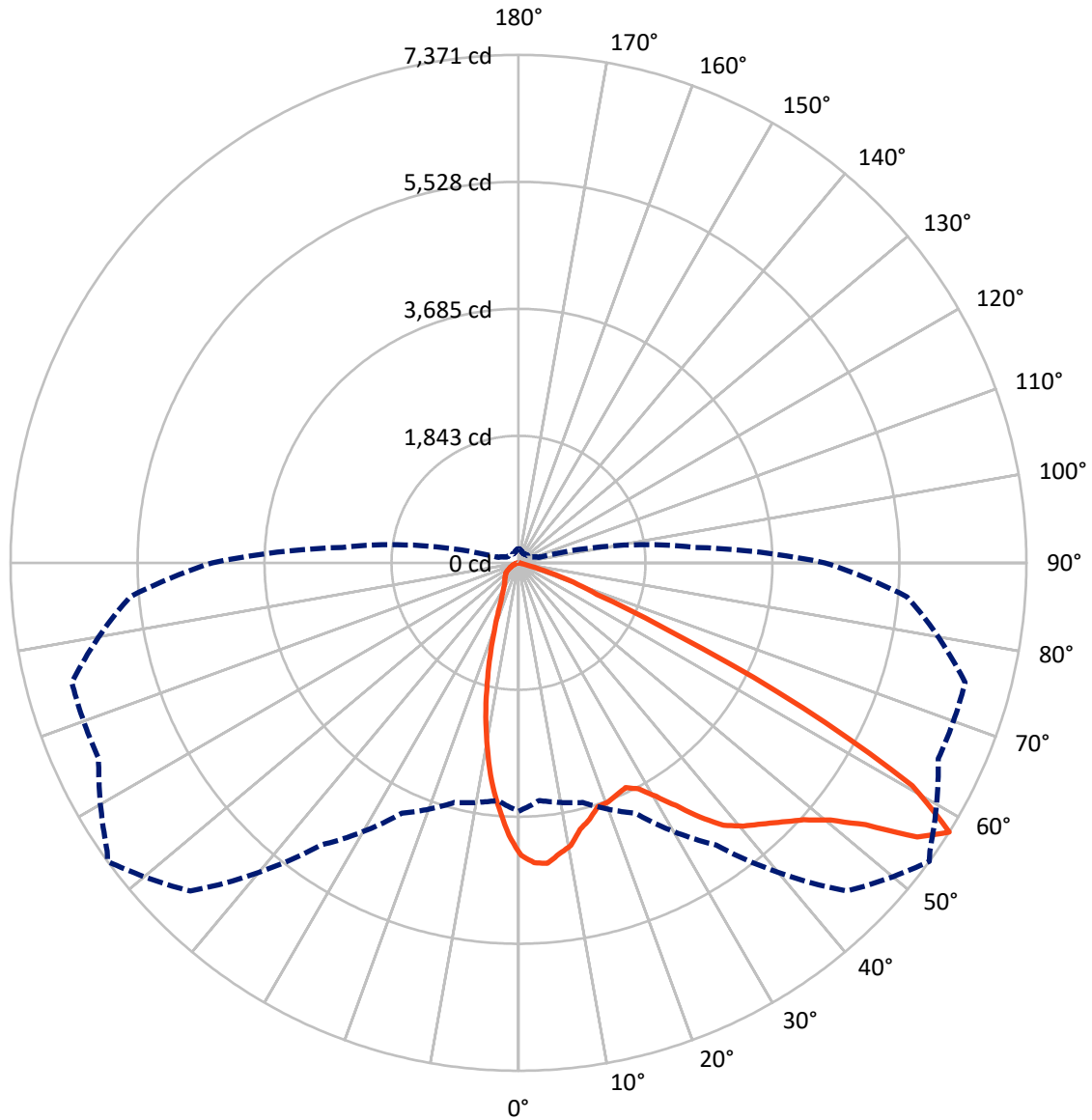
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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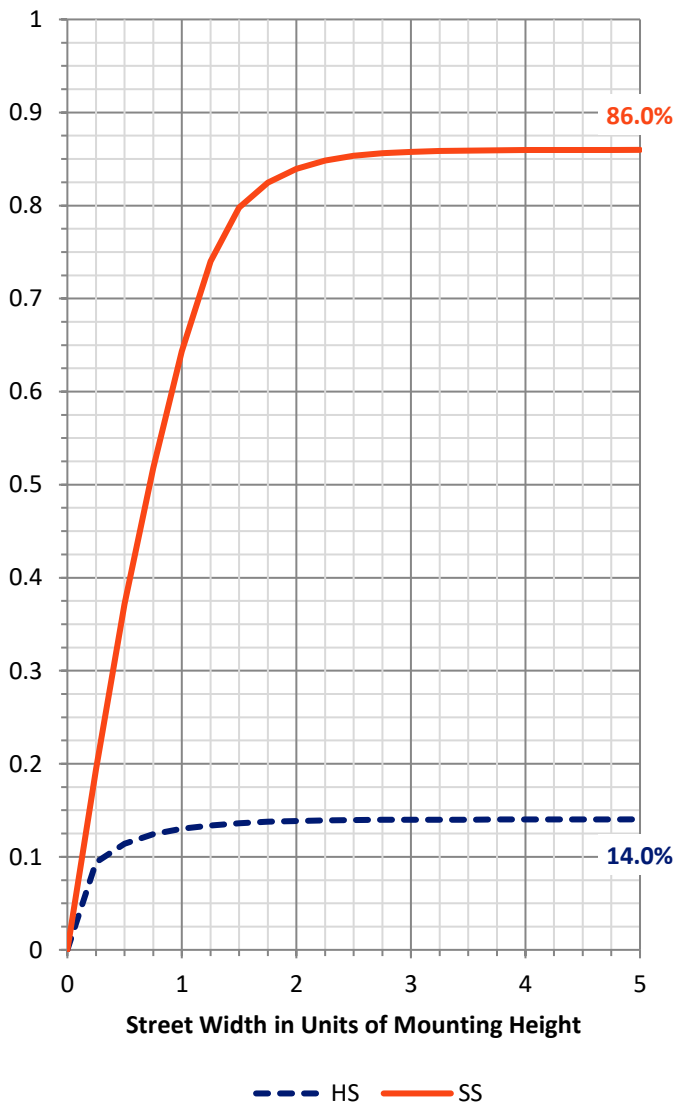
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1361.6	0.0	1361.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	8273.4	0.0	8273.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	9635.0	0.0	9635.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.2	3.7
10°-20°	758.3	7.9
20°-30°	1004.9	10.4
30°-40°	1460.4	15.2
40°-50°	2165.6	22.5
50°-60°	2707.9	28.1
60°-70°	1068.2	11.1
70°-80°	106.4	1.1
80°-90°	8.3	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°	9635.0	100.0
0°-180°	9635.0	100.0

Coefficient of Utilization



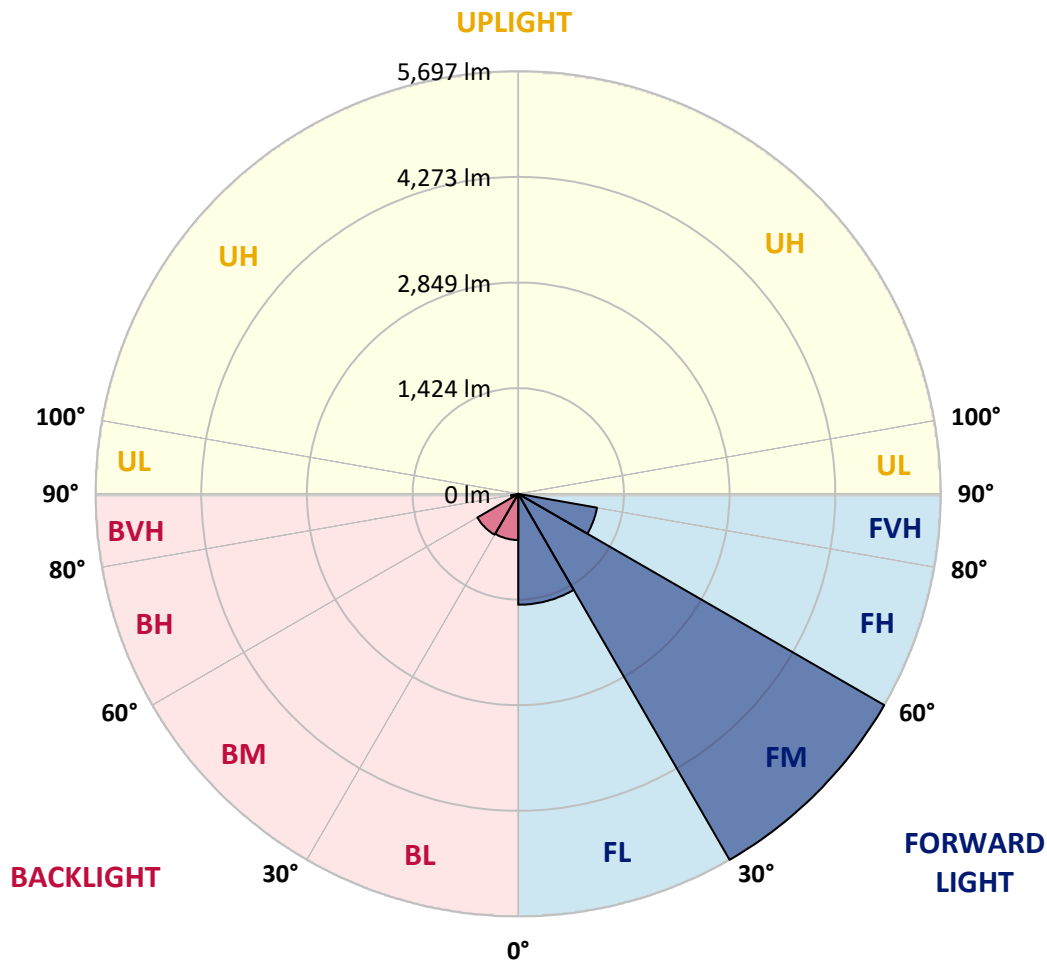
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1495.6	15.5			
FM (30°-60°)	5697.2	59.1			
FH (60°-80°)	1076.9	11.2			G1/1800
FVH (80°-90°)	3.8	0.0			G0/10
BL (0°-30°)	622.7	6.5	B2/1000		
BM (30°-60°)	636.7	6.6	B1/1000		
BH (60°-80°)	97.6	1.0	B0/110		G0/110
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4244.3	4244.3	4244.3	4244.3	4244.3	4244.3	4244.3	4244.3	4244.3	4244.3	4244.3
2.5°	4491.6	4445.0	4448.6	4432.5	4411.0	4427.1	4357.2	4373.3	4371.6	4276.6	4213.9
5°	4378.7	4428.9	4376.9	4419.9	4378.7	4423.5	4380.5	4348.3	4296.3	4226.4	4110.0
7.5°	4187.0	4138.6	4153.0	4206.7	4215.7	4316.0	4262.3	4303.5	4282.0	4144.0	3984.6
10°	3801.8	3791.1	3862.7	3934.4	4022.2	4129.7	4170.9	4147.6	4131.5	4079.5	3866.3
12.5°	3506.2	3536.7	3534.9	3653.1	3801.8	3862.7	3970.2	3966.6	4056.2	3959.5	3755.2
15°	3224.9	3241.0	3316.3	3389.7	3554.6	3728.4	3860.9	3878.9	3986.4	3918.3	3669.2
17.5°	3052.9	3029.6	3088.8	3176.5	3345.0	3572.5	3719.4	3762.4	3909.3	3895.0	3570.7
20°	2882.7	2882.7	2931.1	3035.0	3189.1	3445.3	3706.9	3694.3	3909.3	3868.1	3465.0
22.5°	2825.4	2854.1	2866.6	2945.4	3128.2	3348.5	3653.1	3676.4	3939.8	3855.6	3418.4
25°	2904.2	2866.6	2870.2	2932.9	3104.9	3302.0	3613.7	3665.7	3995.3	3918.3	3380.8
27.5°	2916.8	2954.4	2965.1	3008.1	3122.8	3316.3	3712.2	3817.9	4133.3	4065.2	3391.5
30°	3026.0	3063.7	3061.9	3135.3	3214.2	3432.7	3932.6	3954.1	4418.1	4249.7	3457.8
32.5°	3158.6	3198.0	3210.6	3296.6	3359.3	3645.9	4201.3	4256.9	4692.3	4540.0	3631.6
35°	3323.5	3309.1	3366.5	3452.5	3586.8	3957.7	4529.2	4622.4	4987.9	4916.2	3810.8
37.5°	3529.5	3511.6	3567.1	3706.9	3889.6	4326.8	4832.0	4892.9	5202.9	5265.6	4142.2
40°	3674.6	3681.8	3850.2	4038.3	4231.8	4677.9	5023.7	5082.8	5353.4	5591.6	4393.1
42.5°	3916.5	3961.3	4163.7	4393.1	4595.5	4941.3	5179.6	5236.9	5423.2	5853.2	4731.7
45°	4267.6	4247.9	4471.9	4728.1	4952.0	5215.4	5364.1	5344.4	5464.4	6113.0	4944.9
47.5°	4719.1	4722.7	4871.4	5090.0	5322.9	5453.7	5570.1	5500.3	5550.4	6387.1	5229.7
50°	5027.3	5054.2	5174.2	5398.2	5514.6	5715.3	5864.0	5821.0	5804.8	6552.0	5408.9
52.5°	5106.1	5186.7	5251.2	5530.7	5803.1	6120.2	6310.1	6401.5	6114.8	6607.5	5636.4
55°	4511.3	4583.0	4810.5	5193.9	5912.3	6761.6	7023.1	7024.9	6519.7	6854.7	5795.9
57.5°	3606.5	3461.4	3601.2	4007.9	4998.6	6734.7	7370.7	7286.5	6722.2	6709.6	5657.9
60°	2493.9	2458.1	2467.1	2628.3	3459.6	5356.9	6568.1	6677.4	6190.0	5815.6	4479.0
62.5°	1976.2	1945.7	1906.3	1888.4	2148.2	3337.8	4633.1	4787.2	4328.6	3771.4	2655.2
65°	1548.0	1530.0	1535.4	1607.1	1605.3	1893.7	2533.4	2470.6	1977.9	1462.0	834.9
67.5°	1044.5	1071.4	1092.9	1309.7	1420.8	1318.6	1223.7	1187.8	643.2	270.5	184.5
70°	587.7	591.2	614.5	818.8	1078.6	1023.0	843.9	843.9	320.7	98.5	105.7
72.5°	320.7	310.0	288.5	352.9	480.2	487.3	376.2	327.9	95.0	64.5	59.1
75°	155.9	154.1	132.6	109.3	103.9	86.0	66.3	60.9	43.0	41.2	35.8
77.5°	32.2	30.5	16.1	16.1	17.9	19.7	25.1	25.1	30.5	30.5	25.1
80°	0.0	0.0	1.8	7.2	12.5	17.9	21.5	21.5	25.1	25.1	19.7
82.5°	0.0	0.0	1.8	5.4	10.7	16.1	19.7	21.5	25.1	26.9	21.5
85°	0.0	0.0	0.0	3.6	9.0	12.5	10.7	10.7	9.0	7.2	3.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4244.3	4244.3	4244.3	4244.3	4244.3	4244.3	4244.3	4244.3	4244.3	4244.3	4244.3
2.5°	4181.6	4178.1	4095.6	4049.1	3964.9	3891.4	3832.3	3789.3	3789.3	3762.4	3737.3
5°	4063.4	4032.9	3857.4	3744.5	3585.0	3466.8	3386.2	3323.5	3224.9	3251.8	3146.1
7.5°	3916.5	3839.4	3606.5	3434.5	3214.2	3045.8	2873.8	2721.5	2574.6	2508.3	2544.1
10°	3758.8	3624.4	3310.9	3038.6	2764.5	2456.3	2255.6	2012.0	1861.5	1852.5	1813.1
12.5°	3592.2	3439.9	3058.3	2682.1	2321.9	1951.1	1644.7	1417.2	1315.0	1202.2	1223.7
15°	3466.8	3241.0	2777.0	2323.7	1845.4	1470.9	1162.8	987.2	890.4	863.6	854.6
17.5°	3330.6	3088.8	2490.4	1942.1	1447.6	1058.8	836.7	752.5	714.9	714.9	709.5
20°	3189.1	2916.8	2205.5	1587.4	1085.7	790.1	670.1	643.2	641.4	639.6	639.6
22.5°	3095.9	2719.7	1947.5	1261.3	818.8	632.4	582.3	571.5	578.7	600.2	600.2
25°	2997.4	2529.8	1662.6	972.8	634.2	542.9	514.2	521.4	539.3	559.0	551.8
27.5°	2897.0	2406.1	1393.9	763.2	519.6	474.8	464.0	480.2	499.9	517.8	512.4
30°	2873.8	2273.6	1139.5	578.7	446.1	413.9	421.0	435.4	455.1	462.2	469.4
32.5°	2909.6	2169.7	933.4	474.8	388.8	379.8	379.8	387.0	399.5	415.7	410.3
35°	3011.7	2110.5	738.1	412.1	356.5	347.6	345.8	352.9	360.1	365.5	360.1
37.5°	3167.6	2063.9	603.8	365.5	335.0	320.7	317.1	315.3	322.5	324.3	327.9
40°	3366.5	2089.0	512.4	336.8	313.5	297.4	286.7	286.7	286.7	292.0	293.8
42.5°	3581.4	2123.1	442.5	320.7	293.8	274.1	263.4	259.8	263.4	270.5	268.7
45°	3807.2	2189.4	397.7	295.6	275.9	250.8	236.5	232.9	241.9	256.2	254.4
47.5°	4018.6	2284.3	363.7	279.5	258.0	234.7	216.8	213.2	229.3	249.0	250.8
50°	4230.0	2449.1	351.2	267.0	245.5	218.6	202.5	198.9	216.8	241.9	247.2
52.5°	4473.7	2626.5	342.2	250.8	231.1	206.0	188.1	184.5	204.2	236.5	238.3
55°	4633.1	2777.0	335.0	222.2	204.2	186.3	172.0	170.2	191.7	220.4	227.5
57.5°	4446.8	2567.4	310.0	193.5	173.8	164.8	152.3	152.3	170.2	197.1	202.5
60°	3371.8	1689.5	220.4	155.9	146.9	141.5	136.2	136.2	150.5	170.2	172.0
62.5°	1974.4	910.1	141.5	125.4	125.4	120.0	111.1	111.1	125.4	136.2	138.0
65°	585.9	292.0	114.7	107.5	105.7	96.7	87.8	86.0	96.7	102.1	100.3
67.5°	168.4	134.4	95.0	89.6	87.8	73.5	68.1	66.3	68.1	64.5	62.7
70°	100.3	91.4	73.5	75.2	66.3	53.7	48.4	46.6	43.0	37.6	34.0
72.5°	55.5	55.5	53.7	57.3	46.6	35.8	30.5	25.1	19.7	16.1	14.3
75°	34.0	35.8	37.6	39.4	30.5	23.3	19.7	12.5	7.2	3.6	3.6
77.5°	23.3	25.1	26.9	28.7	25.1	21.5	16.1	9.0	1.8	0.0	0.0
80°	17.9	19.7	23.3	25.1	26.9	28.7	21.5	9.0	1.8	0.0	0.0
82.5°	19.7	21.5	26.9	25.1	25.1	25.1	19.7	9.0	1.8	0.0	0.0
85°	3.6	5.4	9.0	9.0	12.5	16.1	12.5	3.6	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)