

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: P533311

Luminaire Tested: **GALN-SA8D-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34552 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

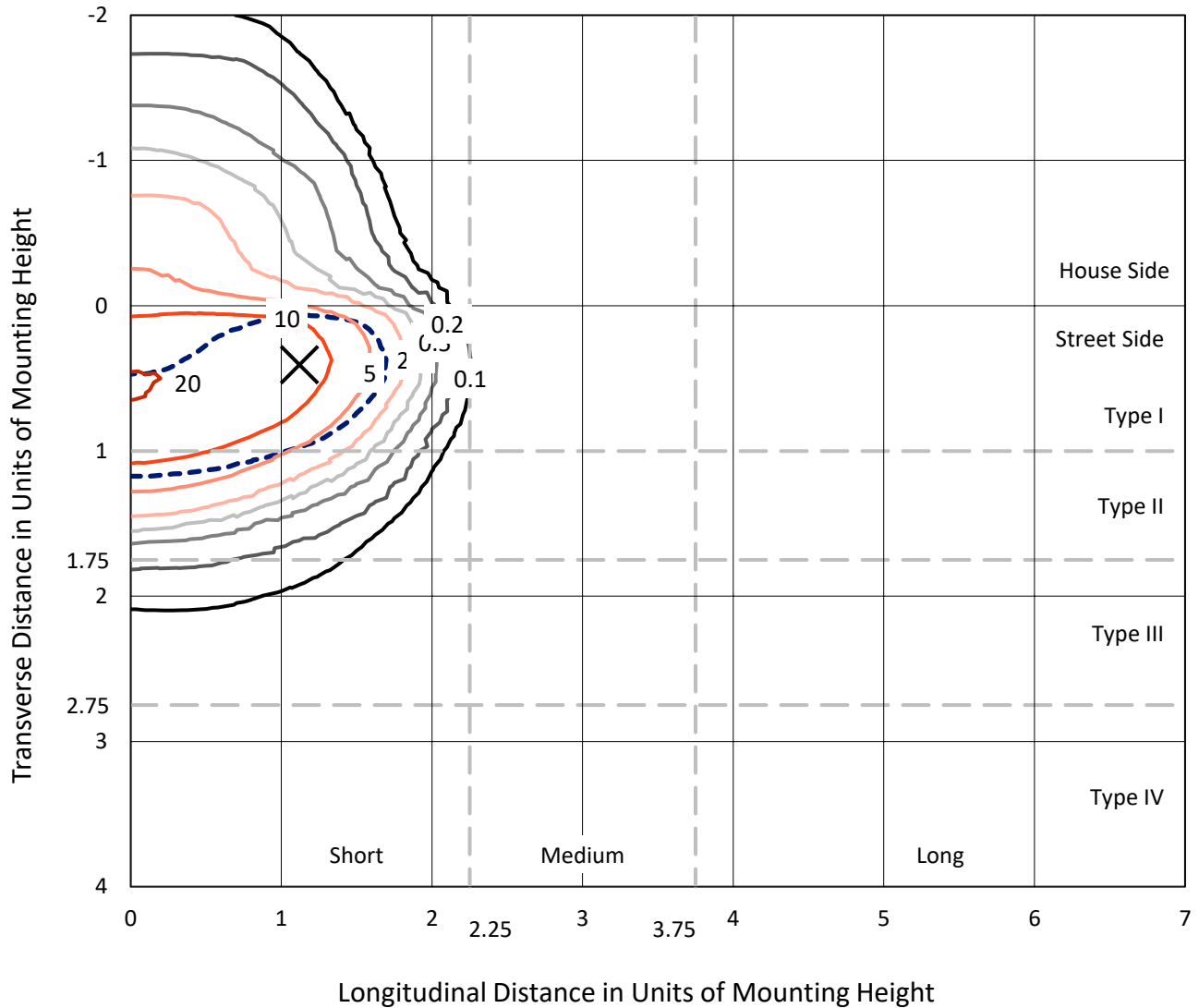
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

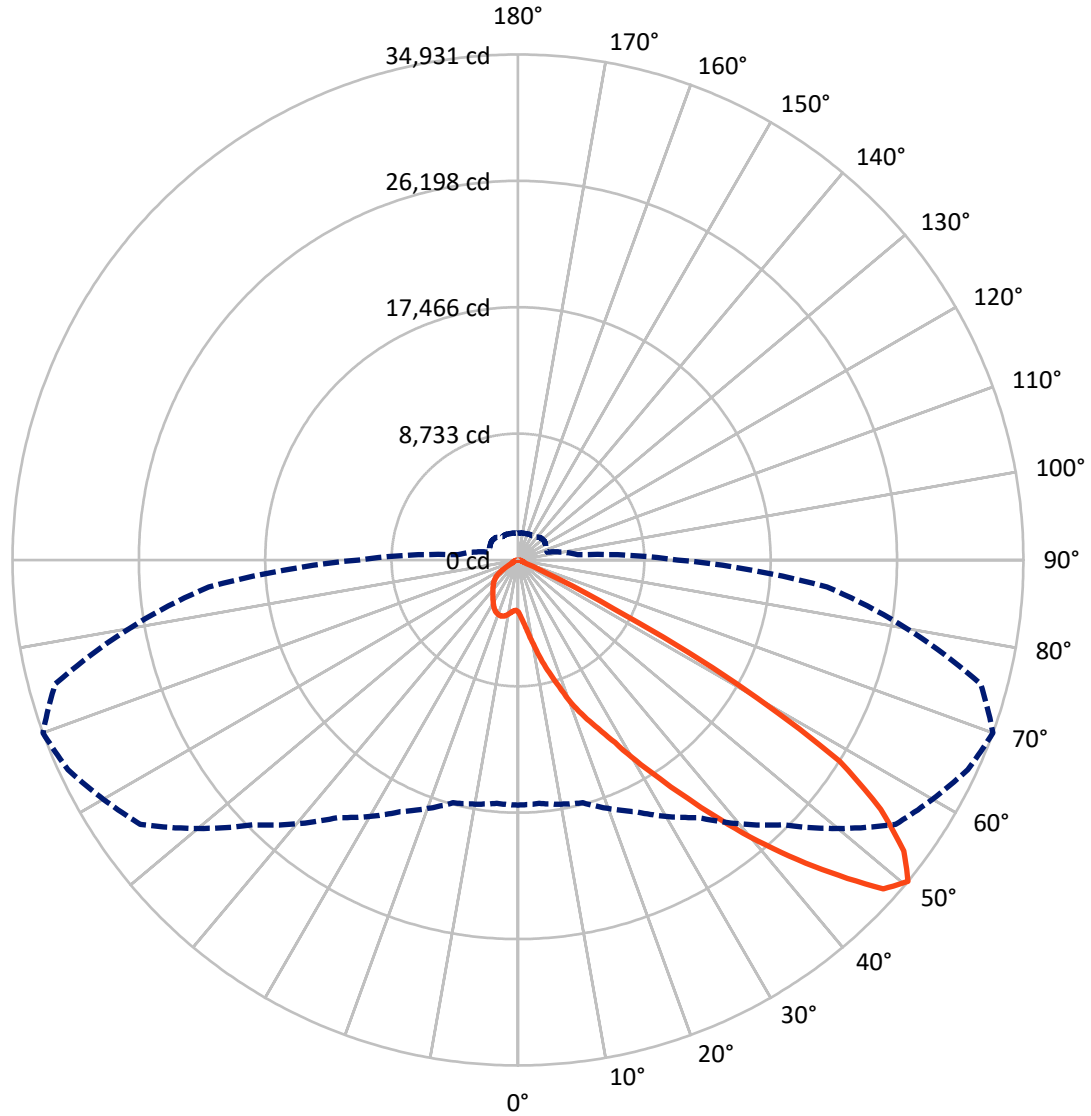
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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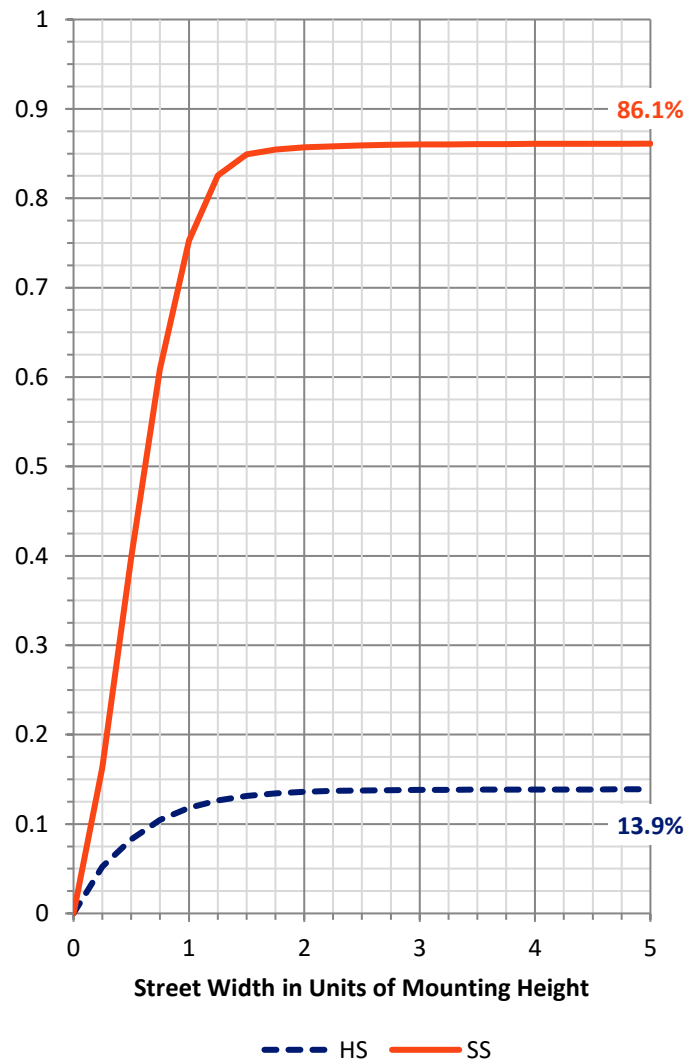
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4825.4	0.0	4825.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	29726.6	0.0	29726.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	34552.0	0.0	34552.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.4	1.3
10°-20°	2013.1	5.8
20°-30°	4223.2	12.2
30°-40°	7279.3	21.1
40°-50°	10638.6	30.8
50°-60°	8285.7	24.0
60°-70°	1403.9	4.1
70°-80°	192.9	0.6
80°-90°	50.0	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°	34552.0	100.0
0°-180°	34552.0	100.0



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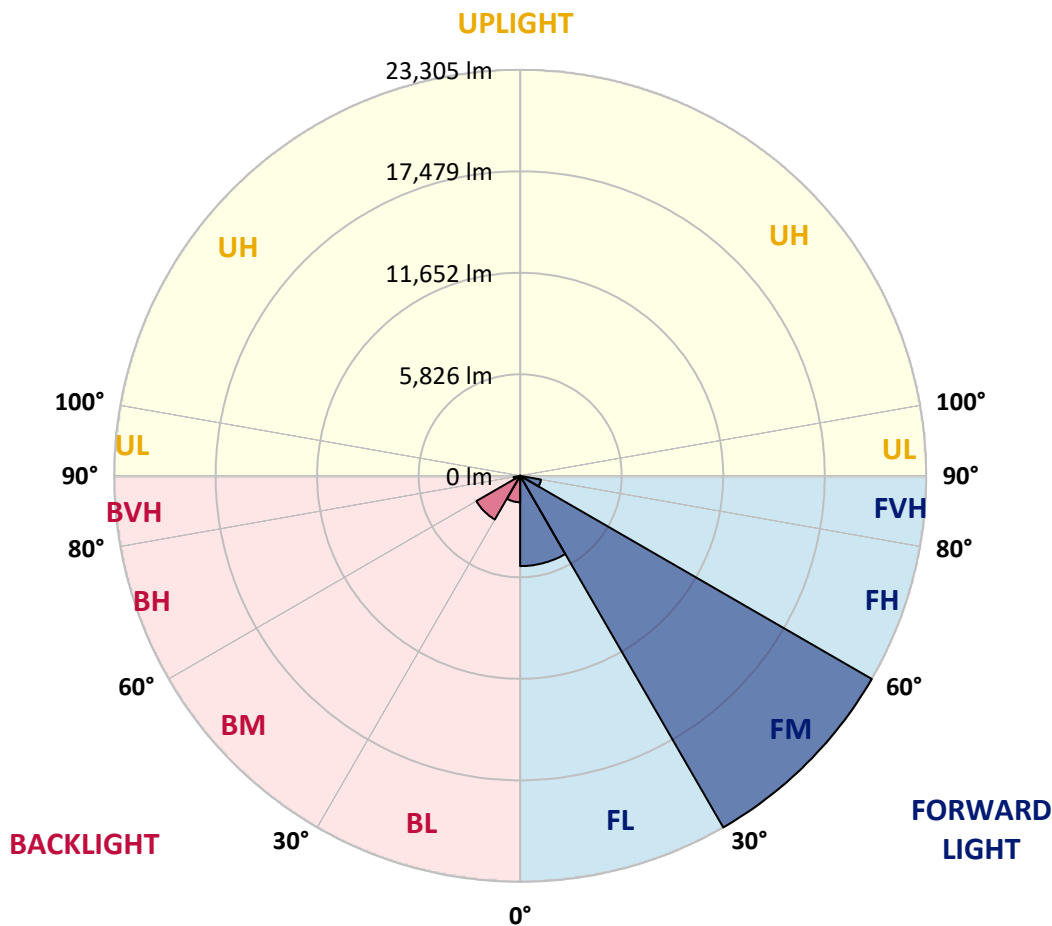
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5183.2	15.0			
FM (30°-60°)	23304.7	67.4			
FH (60°-80°)	1215.5	3.5			G1/1800
FVH (80°-90°)	23.1	0.1			G1/100
BL (0°-30°)	1518.4	4.4	B3/2500		
BM (30°-60°)	2899.0	8.4	B3/5000		
BH (60°-80°)	381.2	1.1	B1/500		G1/500
BVH (80°-90°)	26.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3578.9	3578.9	3578.9	3578.9	3578.9	3578.9	3578.9	3578.9	3578.9	3578.9	3578.9
2.5°	4686.7	4652.6	4578.7	4442.4	4385.6	4249.2	4169.7	4016.3	3919.8	3811.8	3692.5
5°	6601.1	6425.0	6317.1	6163.7	5714.9	5436.5	4976.4	4584.4	4402.6	4203.8	3931.1
7.5°	8578.0	8464.4	8316.7	7987.2	7680.4	7101.0	6311.4	5447.9	5078.6	4737.8	4198.1
10°	10214.1	9896.0	9878.9	9634.6	9299.5	8606.4	7657.7	6584.1	5925.1	5425.2	4578.7
12.5°	11355.9	11066.2	11196.9	11168.5	10856.0	10219.8	9123.4	7703.2	7015.8	6237.5	4970.7
15°	12395.5	12276.2	12236.5	12202.4	12077.4	11605.9	10623.1	9066.6	8072.4	7135.1	5413.8
17.5°	13412.4	13105.6	13253.3	13281.7	13270.4	12844.3	11924.0	10361.8	9191.5	8083.8	5879.6
20°	14315.6	14344.0	14145.2	14105.4	14071.4	14054.3	13156.7	11645.6	10566.3	9077.9	6487.5
22.5°	15474.5	15275.7	15451.8	15338.2	15116.6	14980.3	14292.9	12781.8	11759.3	10276.6	7106.7
25°	16843.6	17002.6	16587.9	16542.5	16298.2	15826.7	15207.5	14054.3	12906.8	11390.0	7777.0
27.5°	18530.8	18252.4	18144.5	17894.5	17451.4	17252.6	16525.5	15366.6	14292.9	12560.3	8424.6
30°	19979.4	19905.5	19365.9	19070.5	18684.2	18678.5	17661.6	17144.7	16099.4	14395.2	9316.5
32.5°	21161.0	20837.2	20638.4	20433.9	20121.4	20206.6	19348.8	19076.1	18025.2	16099.4	10367.5
35°	21950.6	21717.7	21598.4	21286.0	21195.1	21575.7	21217.8	21104.2	20240.7	18496.7	11600.2
37.5°	22200.6	22274.4	22251.7	21859.7	22052.9	23081.1	23541.3	23245.9	22791.4	21024.7	12935.2
40°	22422.1	22473.3	22359.6	22819.8	23370.8	24541.1	26205.6	25717.0	25546.6	23586.7	14792.8
42.5°	22547.1	22507.3	22507.3	23302.7	24137.7	26489.6	28779.0	28455.1	28324.5	26313.5	16940.2
45°	22007.4	21621.1	22035.8	23115.2	24796.7	27449.6	30835.4	31284.2	31096.7	29557.2	19451.1
47.5°	19990.8	20229.3	20462.3	21905.2	23995.7	27154.2	32096.5	33624.7	33971.2	32284.0	21098.5
50°	16940.2	16889.0	17371.9	19189.8	21729.1	25881.7	31852.3	34300.7	34931.3	33102.0	21445.0
52.5°	12321.7	12696.6	13219.2	15025.7	18036.6	22586.9	28699.4	32556.7	33397.4	32096.5	21217.8
55°	7174.9	6760.2	7936.1	9464.2	12304.6	17036.7	24262.7	28858.5	30415.0	30267.3	20070.3
57.5°	2874.5	2783.6	3186.9	4294.7	6419.3	10560.6	17644.6	23711.7	26205.6	27722.3	17638.9
60°	1261.1	1232.7	1448.6	1749.7	2624.5	4868.4	9651.7	14747.4	17349.2	19371.5	12139.9
62.5°	908.9	897.6	1005.5	1113.4	1386.1	2118.9	4056.1	5942.1	7407.8	8947.3	5436.5
65°	732.8	761.2	835.1	891.9	1022.5	1175.9	1431.6	1653.1	2028.0	2101.9	1198.6
67.5°	596.5	619.2	687.4	749.9	772.6	636.3	659.0	579.4	579.4	517.0	414.7
70°	437.4	443.1	522.6	596.5	477.2	255.6	448.8	448.8	403.3	386.3	352.2
72.5°	323.8	329.5	392.0	369.3	187.5	159.1	329.5	363.6	329.5	312.4	284.0
75°	238.6	244.3	204.5	85.2	79.5	102.3	193.1	250.0	238.6	232.9	215.9
77.5°	45.4	34.1	28.4	39.8	56.8	85.2	125.0	153.4	159.1	170.4	159.1
80°	5.7	5.7	17.0	34.1	62.5	90.9	130.7	147.7	153.4	159.1	147.7
82.5°	0.0	5.7	17.0	34.1	62.5	85.2	113.6	130.7	142.0	147.7	142.0
85°	0.0	5.7	11.4	28.4	51.1	62.5	56.8	39.8	34.1	39.8	28.4
87.5°	0.0	0.0	5.7	5.7	11.4	11.4	11.4	11.4	11.4	11.4	11.4
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°	3578.9	3578.9	3578.9	3578.9	3578.9	3578.9	3578.9	3578.9	3578.9	3578.9	3578.9
2.5°	3624.4	3601.6	3522.1	3436.9	3363.0	3397.1	3363.0	3334.6	3346.0	3334.6	3323.3
5°	3823.2	3720.9	3550.5	3476.7	3414.2	3408.5	3391.4	3385.8	3391.4	3391.4	3340.3
7.5°	4010.6	3845.9	3664.1	3584.6	3510.7	3516.4	3476.7	3476.7	3471.0	3442.6	3431.2
10°	4294.7	4073.1	3840.2	3698.2	3607.3	3590.3	3550.5	3510.7	3510.7	3510.7	3453.9
12.5°	4607.1	4328.8	4010.6	3845.9	3738.0	3652.8	3590.3	3578.9	3516.4	3505.1	3476.7
15°	4879.8	4527.6	4124.3	3897.0	3760.7	3647.1	3550.5	3488.0	3459.6	3442.6	3419.8
17.5°	5146.8	4698.0	4186.8	3897.0	3749.3	3618.7	3516.4	3459.6	3391.4	3402.8	3357.4
20°	5504.7	4879.8	4203.8	3823.2	3641.4	3516.4	3380.1	3351.7	3311.9	3277.8	3289.2
22.5°	5851.2	5010.5	4152.7	3732.3	3471.0	3323.3	3255.1	3221.0	3204.0	3175.6	3135.8
25°	6163.7	5152.5	4073.1	3567.5	3289.2	3181.3	3118.8	3113.1	3073.3	3073.3	2999.5
27.5°	6481.8	5203.6	3936.8	3374.4	3130.1	3067.6	3039.2	3027.9	3010.8	2971.1	2919.9
30°	6845.4	5220.7	3738.0	3175.6	2988.1	2919.9	2959.7	2988.1	2914.3	2840.4	2863.1
32.5°	7146.5	5180.9	3499.4	2988.1	2885.8	2851.8	2931.3	2959.7	2874.5	2795.0	2755.2
35°	7510.0	5084.3	3266.5	2840.4	2783.6	2851.8	2919.9	2919.9	2749.5	2652.9	2630.2
37.5°	8061.1	4976.4	3050.6	2715.4	2675.7	2817.7	2908.6	2846.1	2579.1	2459.8	2431.4
40°	8651.9	4908.2	2840.4	2590.4	2618.9	2760.9	2812.0	2618.9	2346.2	2272.3	2249.6
42.5°	9509.7	4771.9	2652.9	2482.5	2567.7	2681.3	2681.3	2334.8	2232.6	2192.8	2187.1
45°	10577.7	4675.3	2488.2	2391.6	2493.9	2522.3	2431.4	2187.1	2113.3	2101.9	2107.6
47.5°	11100.3	4487.8	2317.8	2283.7	2357.5	2363.2	2124.6	2067.8	2005.3	1988.3	1976.9
50°	11020.8	4152.7	2096.2	2141.7	2243.9	2187.1	1937.2	1948.5	1891.7	1886.0	1857.6
52.5°	10464.0	3624.4	1874.7	1982.6	2096.2	1931.5	1783.8	1772.4	1772.4	1698.6	1670.2
55°	9276.8	2919.9	1607.7	1744.0	1880.3	1624.7	1584.9	1573.6	1545.2	1477.0	1460.0
57.5°	7345.3	2141.7	1210.0	1357.7	1596.3	1380.4	1374.8	1323.6	1249.8	1198.6	1198.6
60°	4368.5	1232.7	761.2	829.4	1056.6	1119.1	1244.1	1221.4	1096.4	1016.9	994.1
62.5°	1994.0	636.3	482.9	494.2	568.1	727.1	977.1	1130.5	954.4	818.0	806.7
65°	670.3	471.5	397.7	380.6	392.0	437.4	585.1	801.0	761.2	630.6	607.8
67.5°	409.0	420.4	374.9	346.5	346.5	340.8	335.2	363.6	448.8	437.4	443.1
70°	352.2	386.3	346.5	312.4	301.1	284.0	238.6	198.8	170.4	198.8	210.2
72.5°	284.0	306.8	295.4	267.0	238.6	215.9	170.4	130.7	96.6	85.2	85.2
75°	210.2	227.2	238.6	204.5	181.8	153.4	125.0	85.2	51.1	34.1	34.1
77.5°	153.4	170.4	176.1	159.1	136.3	107.9	79.5	56.8	28.4	11.4	11.4
80°	130.7	153.4	170.4	159.1	142.0	102.3	73.9	39.8	22.7	5.7	5.7
82.5°	125.0	153.4	170.4	153.4	136.3	96.6	73.9	45.4	17.0	5.7	5.7
85°	28.4	39.8	51.1	62.5	73.9	73.9	56.8	34.1	17.0	5.7	5.7
87.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	5.7	5.7	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)