

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: P531517

Luminaire Tested: **GALN-SA6D-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531517
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-SA6D-740-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 30339 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

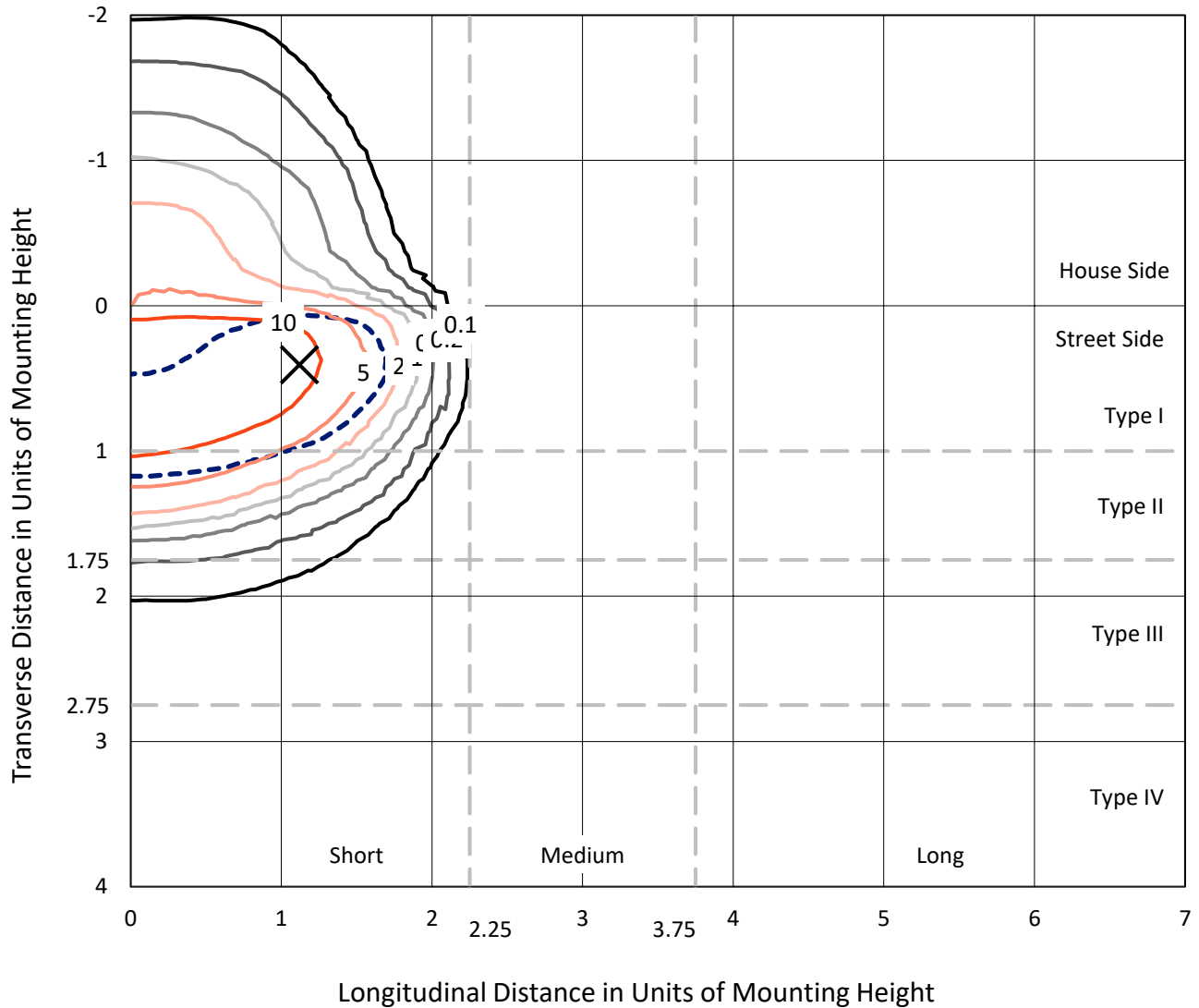
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

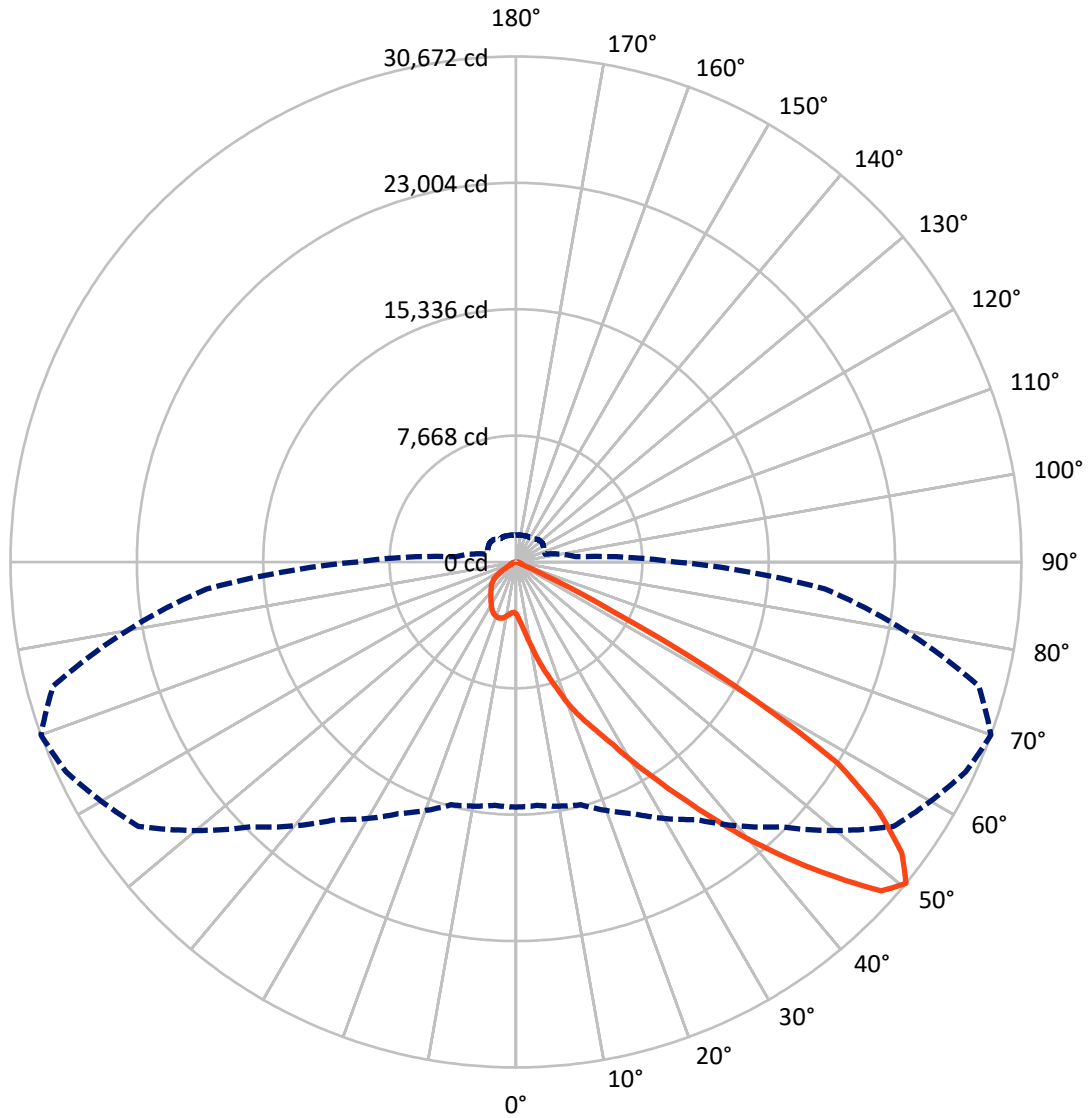
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 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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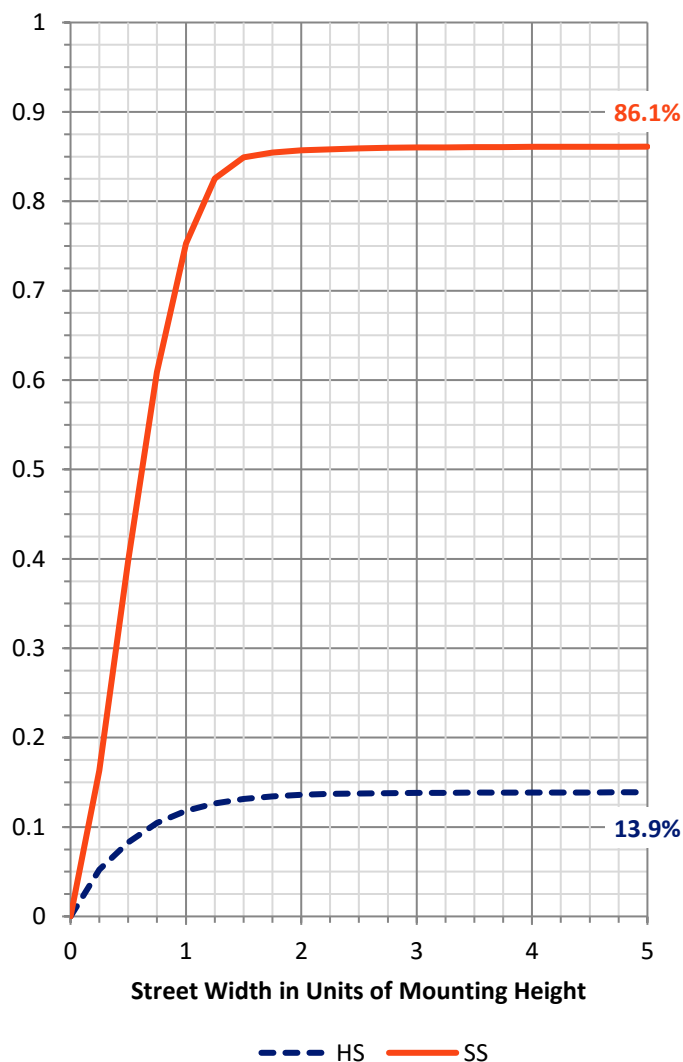
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4237.1	0.0	4237.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	26102.0	0.0	26102.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	30339.0	0.0	30339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.6	1.3
10°-20°	1767.6	5.8
20°-30°	3708.2	12.2
30°-40°	6391.7	21.1
40°-50°	9341.4	30.8
50°-60°	7275.4	24.0
60°-70°	1232.7	4.1
70°-80°	169.3	0.6
80°-90°	43.9	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°	30339.0	100.0
0°-180°	30339.0	100.0

Coefficient of Utilization



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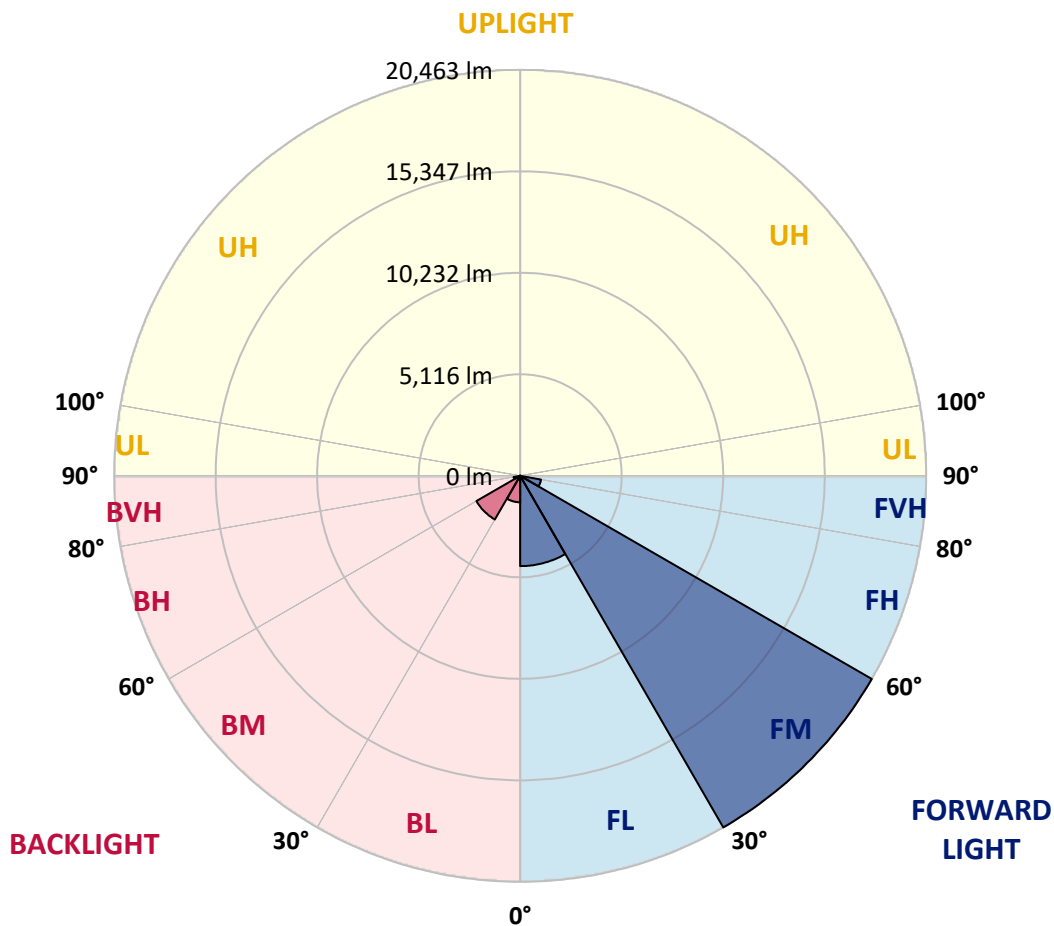
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4551.2	15.0			
FM (30°-60°)	20463.1	67.4			
FH (60°-80°)	1067.3	3.5			G1/1800
FVH (80°-90°)	20.3	0.1			G1/100
BL (0°-30°)	1333.3	4.4	B3/2500		
BM (30°-60°)	2545.5	8.4	B3/5000		
BH (60°-80°)	334.7	1.1	B1/500		G1/500
BVH (80°-90°)	23.6	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°	3142.5	3142.5	3142.5	3142.5	3142.5	3142.5	3142.5	3142.5	3142.5	3142.5	3142.5
2.5°	4115.2	4085.3	4020.4	3900.7	3850.8	3731.1	3661.3	3526.6	3441.8	3347.0	3242.3
5°	5796.2	5641.6	5546.8	5412.1	5018.1	4773.6	4369.6	4025.4	3865.8	3691.2	3451.8
7.5°	7532.1	7432.3	7302.6	7013.3	6744.0	6235.2	5541.8	4783.6	4459.4	4160.1	3686.2
10°	8968.7	8689.3	8674.4	8459.9	8165.6	7557.0	6724.0	5781.2	5202.6	4763.7	4020.4
12.5°	9971.3	9716.9	9831.6	9806.7	9532.3	8973.6	8010.9	6763.9	6160.3	5477.0	4364.6
15°	10884.1	10779.4	10744.4	10714.5	10604.8	10190.8	9327.8	7961.1	7088.1	6265.1	4753.7
17.5°	11777.0	11507.6	11637.3	11662.3	11652.3	11278.2	10470.1	9098.4	8070.8	7098.1	5162.7
20°	12570.1	12595.0	12420.4	12385.5	12355.6	12340.6	11552.5	10225.7	9277.9	7971.0	5696.4
22.5°	13587.7	13413.1	13567.7	13468.0	13273.4	13153.7	12550.1	11223.3	10325.4	9023.5	6240.2
25°	14789.8	14929.5	14565.3	14525.4	14310.9	13896.9	13353.2	12340.6	11333.0	10001.2	6828.8
27.5°	16271.3	16026.9	15932.1	15712.6	15323.5	15149.0	14510.5	13492.9	12550.1	11028.8	7397.4
30°	17543.3	17478.4	17004.5	16745.2	16406.0	16401.0	15508.1	15054.2	14136.4	12639.9	8180.5
32.5°	18580.8	18296.5	18121.9	17942.3	17668.0	17742.8	16989.6	16750.1	15827.3	14136.4	9103.3
35°	19274.1	19069.6	18964.9	18690.5	18610.7	18944.9	18630.7	18530.9	17772.7	16241.4	10185.8
37.5°	19493.6	19558.5	19538.5	19194.3	19363.9	20266.8	20670.8	20411.4	20012.4	18461.1	11358.0
40°	19688.2	19733.0	19633.3	20037.3	20521.2	21548.7	23010.3	22581.3	22431.6	20710.7	12989.1
42.5°	19797.9	19763.0	19763.0	20461.3	21194.6	23259.7	25269.9	24985.6	24870.8	23105.0	14874.6
45°	19324.0	18984.8	19349.0	20296.7	21773.2	24102.7	27075.6	27469.6	27305.0	25953.2	17079.4
47.5°	17553.2	17762.7	17967.3	19234.2	21069.9	23843.3	28182.9	29524.8	29829.0	28347.6	18525.9
50°	14874.6	14829.7	15253.7	16849.9	19079.6	22725.9	27968.5	30118.3	30672.0	29065.8	18830.2
52.5°	10819.3	11148.5	11607.4	13193.6	15837.3	19832.8	25200.0	28587.0	29325.2	28182.9	18630.7
55°	6300.0	5935.9	6968.4	8310.2	10804.3	14959.4	21304.3	25339.7	26706.5	26576.8	17623.1
57.5°	2524.0	2444.2	2798.3	3771.0	5636.6	9272.9	15493.1	20820.5	23010.3	24342.1	15488.1
60°	1107.4	1082.4	1272.0	1536.3	2304.5	4274.8	8474.8	12949.2	15233.8	17009.5	10659.6
62.5°	798.1	788.1	882.9	977.7	1217.1	1860.6	3561.5	5217.6	6504.5	7856.3	4773.6
65°	643.5	668.4	733.3	783.1	897.9	1032.5	1257.0	1451.5	1780.8	1845.6	1052.5
67.5°	523.8	543.7	603.6	658.4	678.4	558.7	578.6	508.8	508.8	453.9	364.1
70°	384.1	389.1	458.9	523.8	419.0	224.5	394.1	394.1	354.2	339.2	309.3
72.5°	284.3	289.3	344.2	324.2	164.6	139.7	289.3	319.2	289.3	274.3	249.4
75°	209.5	214.5	179.6	74.8	69.8	89.8	169.6	219.5	209.5	204.5	189.5
77.5°	39.9	29.9	24.9	34.9	49.9	74.8	109.7	134.7	139.7	149.6	139.7
80°	5.0	5.0	15.0	29.9	54.9	79.8	114.7	129.7	134.7	139.7	129.7
82.5°	0.0	5.0	15.0	29.9	54.9	74.8	99.8	114.7	124.7	129.7	124.7
85°	0.0	5.0	10.0	24.9	44.9	54.9	49.9	34.9	29.9	34.9	24.9
87.5°	0.0	0.0	5.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
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°	3142.5	3142.5	3142.5	3142.5	3142.5	3142.5	3142.5	3142.5	3142.5	3142.5	3142.5
2.5°	3182.4	3162.5	3092.6	3017.8	2953.0	2982.9	2953.0	2928.0	2938.0	2928.0	2918.1
5°	3357.0	3267.2	3117.6	3052.7	2997.9	2992.9	2977.9	2972.9	2977.9	2977.9	2933.0
7.5°	3521.6	3377.0	3217.3	3147.5	3082.7	3087.7	3052.7	3052.7	3047.7	3022.8	3012.8
10°	3771.0	3576.5	3372.0	3247.3	3167.5	3152.5	3117.6	3082.7	3082.7	3082.7	3032.8
12.5°	4045.4	3801.0	3521.6	3377.0	3282.2	3207.4	3152.5	3142.5	3087.7	3077.7	3052.7
15°	4284.8	3975.5	3621.4	3421.9	3302.1	3202.4	3117.6	3062.7	3037.8	3022.8	3002.9
17.5°	4519.2	4125.2	3676.3	3421.9	3292.2	3177.4	3087.7	3037.8	2977.9	2987.9	2948.0
20°	4833.5	4284.8	3691.2	3357.0	3197.4	3087.7	2967.9	2943.0	2908.1	2878.2	2888.1
22.5°	5137.8	4399.5	3646.3	3277.2	3047.7	2918.1	2858.2	2828.3	2813.3	2788.4	2753.4
25°	5412.1	4524.2	3576.5	3132.5	2888.1	2793.4	2738.5	2733.5	2698.6	2698.6	2633.7
27.5°	5691.5	4569.1	3456.8	2963.0	2748.5	2693.6	2668.7	2658.7	2643.7	2608.8	2563.9
30°	6010.7	4584.1	3282.2	2788.4	2623.8	2563.9	2598.8	2623.8	2558.9	2494.1	2514.0
32.5°	6275.1	4549.2	3072.7	2623.8	2534.0	2504.0	2573.9	2598.8	2524.0	2454.2	2419.2
35°	6594.3	4464.4	2868.2	2494.1	2444.2	2504.0	2563.9	2563.9	2414.3	2329.5	2309.5
37.5°	7078.2	4369.6	2678.6	2384.3	2349.4	2474.1	2553.9	2499.1	2264.6	2159.9	2134.9
40°	7596.9	4309.7	2494.1	2274.6	2299.5	2424.2	2469.1	2299.5	2060.1	1995.3	1975.3
42.5°	8350.1	4190.0	2329.5	2179.8	2254.6	2354.4	2354.4	2050.1	1960.3	1925.4	1920.4
45°	9287.9	4105.2	2184.8	2100.0	2189.8	2214.7	2134.9	1920.4	1855.6	1845.6	1850.6
47.5°	9746.8	3940.6	2035.2	2005.2	2070.1	2075.1	1865.6	1815.7	1760.8	1745.8	1735.9
50°	9677.0	3646.3	1840.6	1880.5	1970.3	1920.4	1701.0	1710.9	1661.0	1656.1	1631.1
52.5°	9188.1	3182.4	1646.1	1740.9	1840.6	1696.0	1566.3	1556.3	1556.3	1491.5	1466.5
55°	8145.6	2563.9	1411.6	1531.4	1651.1	1426.6	1391.7	1381.7	1356.8	1296.9	1281.9
57.5°	6449.7	1880.5	1062.5	1192.2	1401.7	1212.1	1207.1	1162.2	1097.4	1052.5	1052.5
60°	3835.9	1082.4	668.4	728.3	927.8	982.7	1092.4	1072.4	962.7	892.9	872.9
62.5°	1750.8	558.7	424.0	434.0	498.8	638.5	858.0	992.6	838.0	718.3	708.3
65°	588.6	414.0	349.2	334.2	344.2	384.1	513.8	703.3	668.4	553.7	533.7
67.5°	359.1	369.1	329.2	304.3	304.3	299.3	294.3	319.2	394.1	384.1	389.1
70°	309.3	339.2	304.3	274.3	264.4	249.4	209.5	174.6	149.6	174.6	184.6
72.5°	249.4	269.4	259.4	234.4	209.5	189.5	149.6	114.7	84.8	74.8	74.8
75°	184.6	199.5	209.5	179.6	159.6	134.7	109.7	74.8	44.9	29.9	29.9
77.5°	134.7	149.6	154.6	139.7	119.7	94.8	69.8	49.9	24.9	10.0	10.0
80°	114.7	134.7	149.6	139.7	124.7	89.8	64.8	34.9	20.0	5.0	5.0
82.5°	109.7	134.7	149.6	134.7	119.7	84.8	64.8	39.9	15.0	5.0	5.0
85°	24.9	34.9	44.9	54.9	64.8	64.8	49.9	29.9	15.0	5.0	5.0
87.5°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	5.0	5.0	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)