

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: P532453

Luminaire Tested: **GALN-SA7D-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532453
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-SA7D-740-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 35636 lumens
Efficiency: N/A
Efficacy: 82.3 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

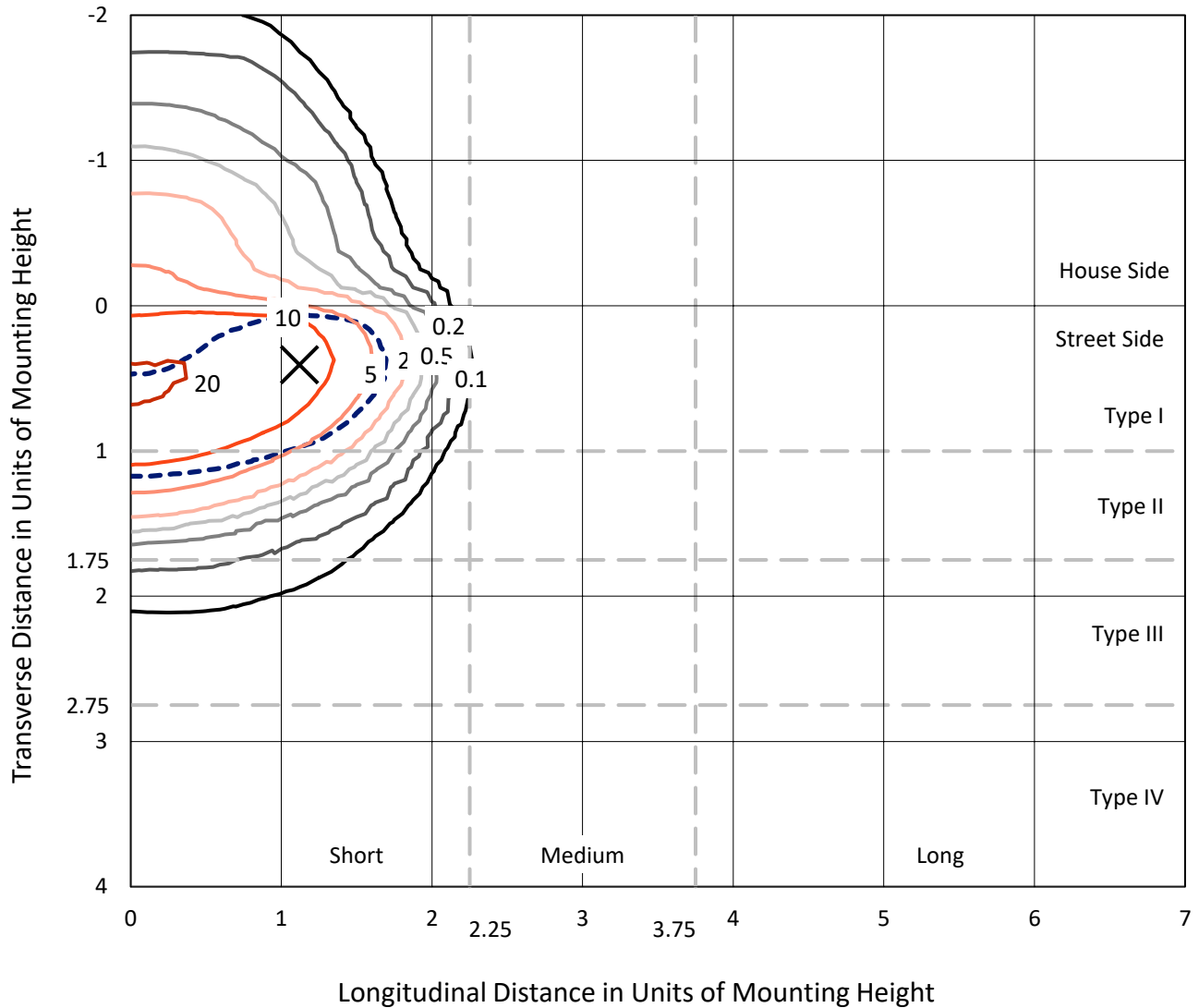
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

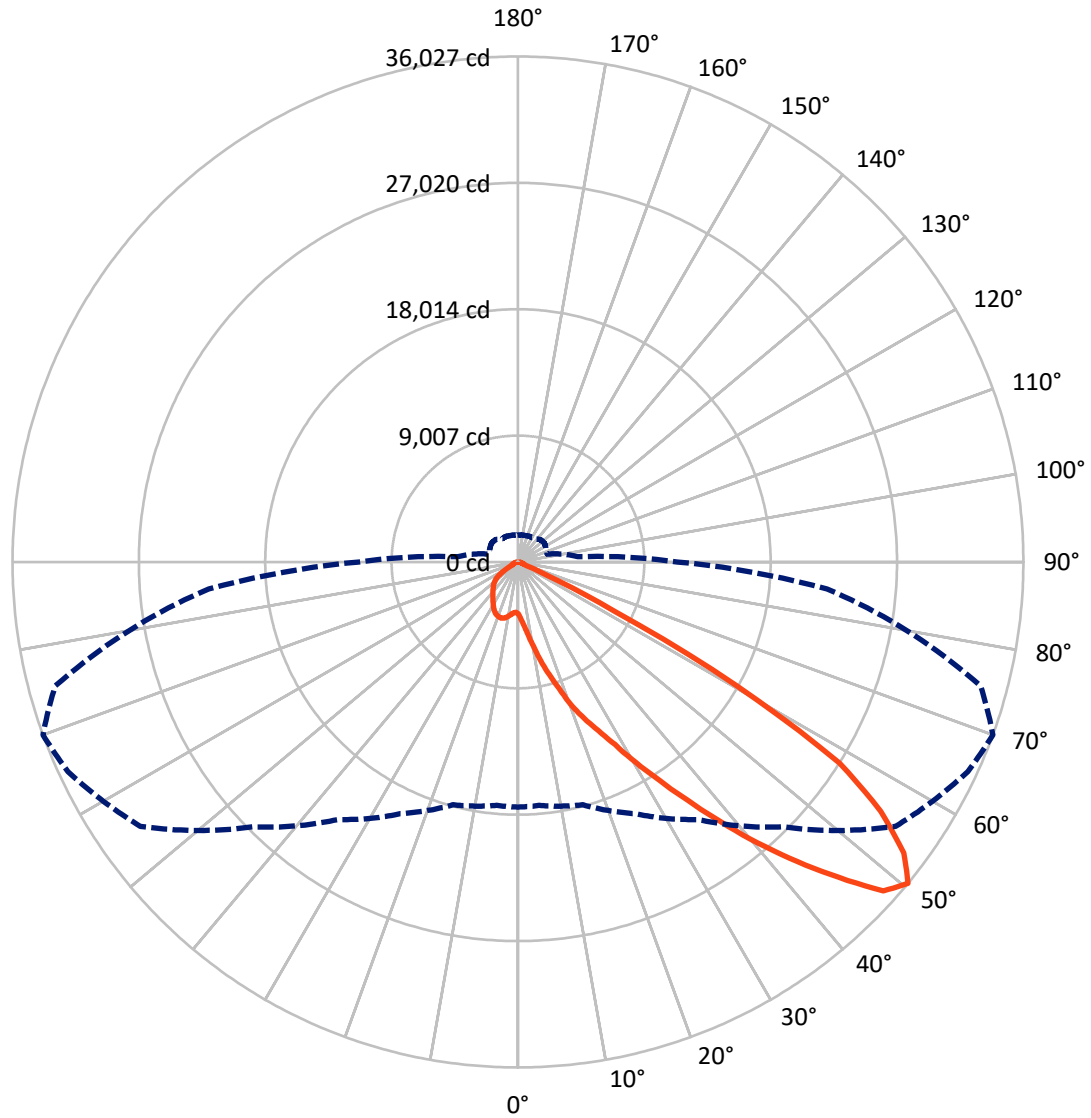
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.1 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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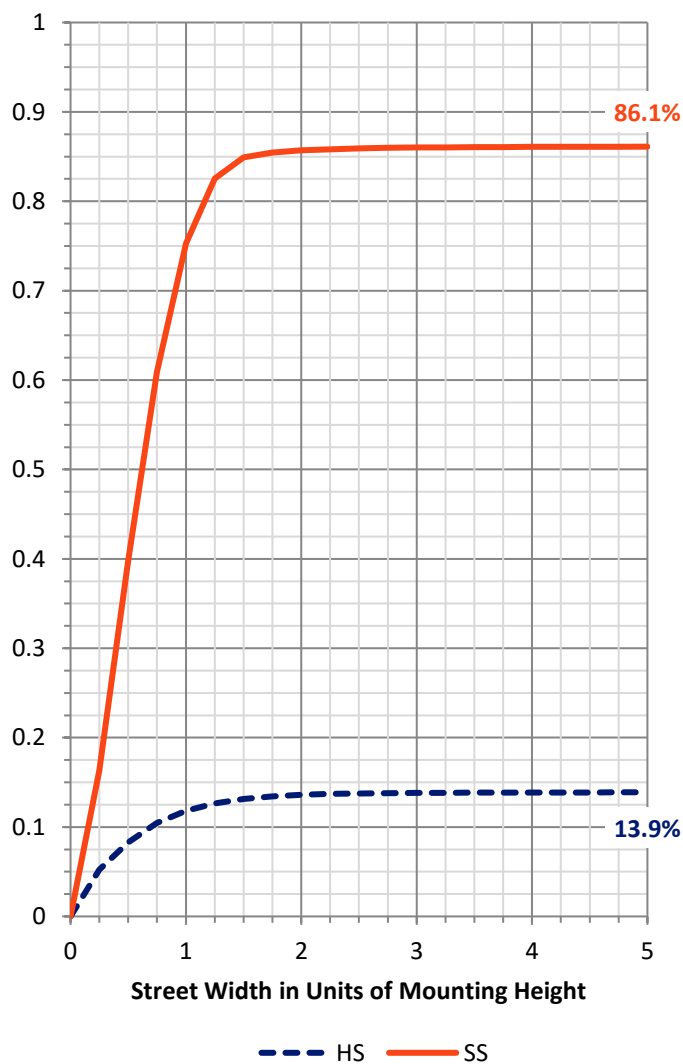
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4976.8	0.0	4976.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	30659.2	0.0	30659.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	35636.0	0.0	35636.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.0	1.3
10°-20°	2076.3	5.8
20°-30°	4355.6	12.2
30°-40°	7507.7	21.1
40°-50°	10972.4	30.8
50°-60°	8545.7	24.0
60°-70°	1447.9	4.1
70°-80°	198.9	0.6
80°-90°	51.5	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°	35636.0	100.0
0°-180°	35636.0	100.0

Coefficient of Utilization



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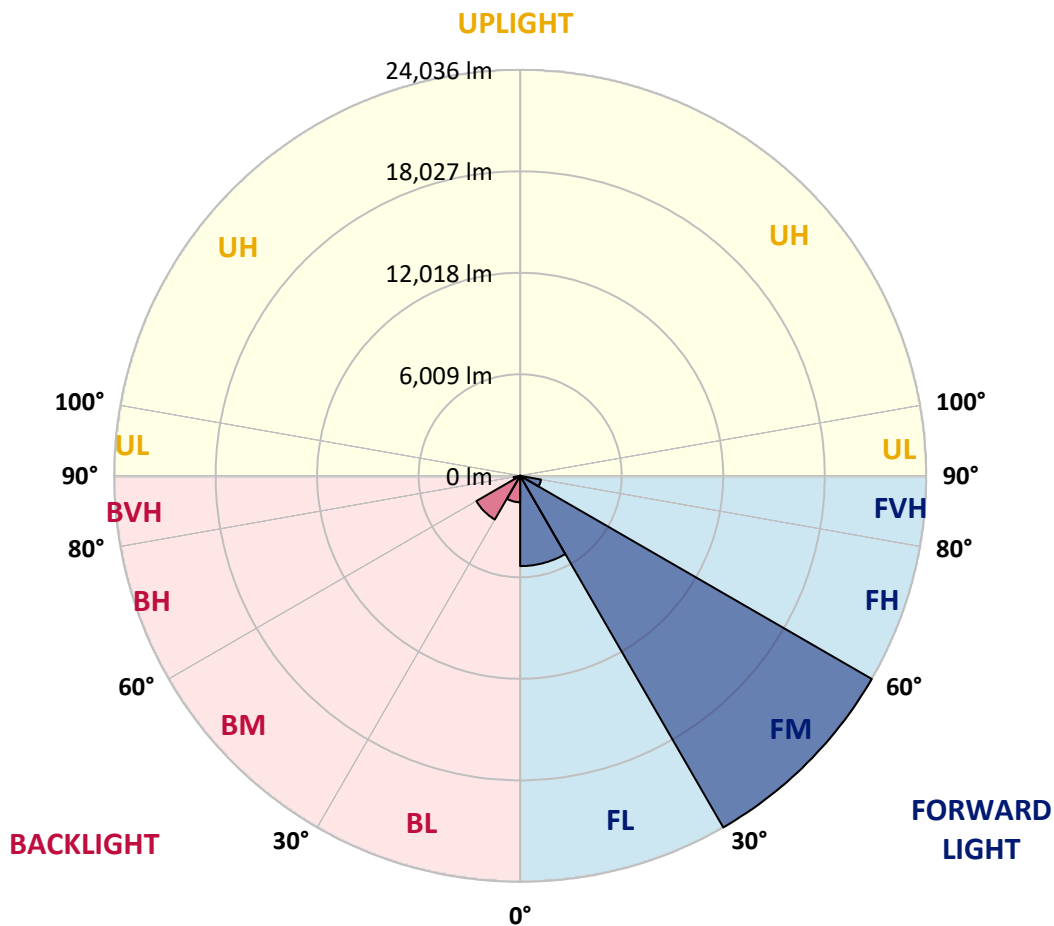
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5345.8	15.0			
FM (30°-60°)	24035.9	67.4			
FH (60°-80°)	1253.7	3.5			G1/1800
FVH (80°-90°)	23.8	0.1			G1/100
BL (0°-30°)	1566.1	4.4	B3/2500		
BM (30°-60°)	2989.9	8.4	B3/5000		
BH (60°-80°)	393.1	1.1	B1/500		G1/500
BVH (80°-90°)	27.7	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°	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2
2.5°	4833.7	4798.5	4722.4	4581.8	4523.2	4382.6	4300.5	4142.3	4042.7	3931.4	3808.4
5°	6808.2	6626.6	6515.2	6357.0	5894.2	5607.1	5132.5	4728.2	4540.7	4335.7	4054.4
7.5°	8847.1	8730.0	8577.6	8237.8	7921.4	7323.8	6509.4	5618.8	5238.0	4886.4	4329.8
10°	10534.5	10206.4	10188.9	9936.9	9591.2	8876.4	7898.0	6790.6	6111.0	5595.4	4722.4
12.5°	11712.2	11413.4	11548.1	11518.8	11196.6	10540.4	9409.6	7944.8	7235.9	6433.2	5126.6
15°	12784.4	12661.4	12620.3	12585.2	12456.3	11970.0	10956.4	9351.0	8325.7	7358.9	5583.7
17.5°	13833.2	13516.8	13669.1	13698.4	13686.7	13247.3	12298.1	10686.9	9479.9	8337.4	6064.1
20°	14764.8	14794.0	14589.0	14548.0	14512.8	14495.2	13569.5	12011.0	10897.8	9362.7	6691.0
22.5°	15960.0	15754.9	15936.6	15819.4	15590.9	15450.3	14741.3	13182.8	12128.2	10599.0	7329.6
25°	17372.0	17536.1	17108.4	17061.5	16809.6	16323.3	15684.6	14495.2	13311.7	11747.4	8021.0
27.5°	19112.2	18825.1	18713.7	18455.9	17998.9	17793.9	17043.9	15848.7	14741.3	12954.3	8688.9
30°	20606.2	20530.0	19973.4	19668.8	19270.3	19264.5	18215.7	17682.5	16604.5	14846.8	9608.8
32.5°	21824.9	21490.9	21285.9	21074.9	20752.7	20840.6	19955.9	19674.6	18590.7	16604.5	10692.7
35°	22639.3	22399.1	22276.0	21953.8	21860.0	22252.6	21883.5	21766.3	20875.7	19077.0	11964.1
37.5°	22897.1	22973.3	22949.8	22545.5	22744.7	23805.2	24279.8	23975.1	23506.4	21684.3	13341.0
40°	23125.6	23178.3	23061.1	23535.7	24104.0	25311.0	27027.7	26523.8	26348.1	24326.7	15256.9
42.5°	23254.5	23213.5	23213.5	24033.7	24895.0	27320.6	29681.8	29347.9	29213.1	27139.0	17471.6
45°	22697.9	22299.5	22727.2	23840.4	25574.7	28310.8	31802.8	32265.7	32072.3	30484.5	20061.3
47.5°	20617.9	20864.0	21104.2	22592.4	24748.5	28006.2	33103.5	34679.6	35037.0	33296.9	21760.4
50°	17471.6	17418.9	17916.9	19791.8	22410.8	26693.7	32851.6	35376.8	36027.2	34140.6	22117.8
52.5°	12708.2	13094.9	13634.0	15497.1	18602.4	23295.5	29599.8	33578.1	34445.2	33103.5	21883.5
55°	7400.0	6972.2	8185.1	9761.1	12690.7	17571.2	25023.9	29763.9	31369.2	31216.9	20699.9
57.5°	2964.7	2870.9	3286.9	4429.4	6620.7	10891.9	18198.1	24455.6	27027.7	28592.1	18192.3
60°	1300.7	1271.4	1494.1	1804.6	2706.9	5021.2	9954.5	15210.0	17893.5	19979.3	12520.7
62.5°	937.4	925.7	1037.0	1148.4	1429.6	2185.4	4183.3	6128.5	7640.2	9228.0	5607.1
65°	755.8	785.1	861.3	919.9	1054.6	1212.8	1476.5	1705.0	2091.7	2167.8	1236.3
67.5°	615.2	638.6	708.9	773.4	796.8	656.2	679.6	597.6	597.6	533.2	427.7
70°	451.1	457.0	539.0	615.2	492.2	263.7	462.9	462.9	416.0	398.4	363.3
72.5°	334.0	339.8	404.3	380.8	193.3	164.1	339.8	375.0	339.8	322.2	293.0
75°	246.1	251.9	210.9	87.9	82.0	105.5	199.2	257.8	246.1	240.2	222.6
77.5°	46.9	35.2	29.3	41.0	58.6	87.9	128.9	158.2	164.1	175.8	164.1
80°	5.9	5.9	17.6	35.2	64.4	93.7	134.8	152.3	158.2	164.1	152.3
82.5°	0.0	5.9	17.6	35.2	64.4	87.9	117.2	134.8	146.5	152.3	146.5
85°	0.0	5.9	11.7	29.3	52.7	64.4	58.6	41.0	35.2	41.0	29.3
87.5°	0.0	0.0	5.9	5.9	11.7	11.7	11.7	11.7	11.7	11.7	11.7
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°	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2
2.5°	3738.1	3714.6	3632.6	3544.7	3468.5	3503.7	3468.5	3439.2	3451.0	3439.2	3427.5
5°	3943.1	3837.7	3661.9	3585.7	3521.3	3515.4	3497.8	3492.0	3497.8	3497.8	3445.1
7.5°	4136.5	3966.6	3779.1	3697.0	3620.9	3626.7	3585.7	3585.7	3579.9	3550.6	3538.9
10°	4429.4	4200.9	3960.7	3814.2	3720.5	3702.9	3661.9	3620.9	3620.9	3620.9	3562.3
12.5°	4751.7	4464.6	4136.5	3966.6	3855.2	3767.4	3702.9	3691.2	3626.7	3615.0	3585.7
15°	5032.9	4669.6	4253.7	4019.3	3878.7	3761.5	3661.9	3597.4	3568.1	3550.6	3527.1
17.5°	5308.3	4845.4	4318.1	4019.3	3867.0	3732.2	3626.7	3568.1	3497.8	3509.6	3462.7
20°	5677.4	5032.9	4335.7	3943.1	3755.6	3626.7	3486.1	3456.8	3415.8	3380.7	3392.4
22.5°	6034.8	5167.7	4282.9	3849.4	3579.9	3427.5	3357.2	3322.1	3304.5	3275.2	3234.2
25°	6357.0	5314.1	4200.9	3679.5	3392.4	3281.1	3216.6	3210.7	3169.7	3169.7	3093.6
27.5°	6685.2	5366.9	4060.3	3480.3	3228.3	3163.9	3134.6	3122.9	3105.3	3064.3	3011.5
30°	7060.1	5384.4	3855.2	3275.2	3081.8	3011.5	3052.6	3081.8	3005.7	2929.5	2953.0
32.5°	7370.7	5343.4	3609.2	3081.8	2976.4	2941.2	3023.3	3052.6	2964.7	2882.6	2841.6
35°	7745.6	5243.8	3368.9	2929.5	2870.9	2941.2	3011.5	3011.5	2835.8	2736.2	2712.7
37.5°	8314.0	5132.5	3146.3	2800.6	2759.6	2906.1	2999.8	2935.4	2660.0	2537.0	2507.7
40°	8923.3	5062.2	2929.5	2671.7	2701.0	2847.5	2900.2	2701.0	2419.8	2343.6	2320.2
42.5°	9808.0	4921.6	2736.2	2560.4	2648.3	2765.5	2765.5	2408.1	2302.6	2261.6	2255.7
45°	10909.5	4822.0	2566.3	2466.7	2572.1	2601.4	2507.7	2255.7	2179.6	2167.8	2173.7
47.5°	11448.5	4628.6	2390.5	2355.3	2431.5	2437.4	2191.3	2132.7	2068.2	2050.7	2038.9
50°	11366.5	4282.9	2162.0	2208.9	2314.3	2255.7	1997.9	2009.6	1951.1	1945.2	1915.9
52.5°	10792.3	3738.1	1933.5	2044.8	2162.0	1992.1	1839.7	1828.0	1828.0	1751.8	1722.6
55°	9567.8	3011.5	1658.1	1798.7	1939.3	1675.7	1634.7	1623.0	1593.7	1523.3	1505.8
57.5°	7575.7	2208.9	1248.0	1400.3	1646.4	1423.7	1417.9	1365.2	1289.0	1236.3	1236.3
60°	4505.6	1271.4	785.1	855.4	1089.8	1154.2	1283.1	1259.7	1130.8	1048.8	1025.3
62.5°	2056.5	656.2	498.0	509.7	585.9	750.0	1007.8	1165.9	984.3	843.7	832.0
65°	691.4	486.3	410.1	392.6	404.3	451.1	603.5	826.1	785.1	650.4	626.9
67.5°	421.9	433.6	386.7	357.4	357.4	351.5	345.7	375.0	462.9	451.1	457.0
70°	363.3	398.4	357.4	322.2	310.5	293.0	246.1	205.1	175.8	205.1	216.8
72.5°	293.0	316.4	304.7	275.4	246.1	222.6	175.8	134.8	99.6	87.9	87.9
75°	216.8	234.4	246.1	210.9	187.5	158.2	128.9	87.9	52.7	35.2	35.2
77.5°	158.2	175.8	181.6	164.1	140.6	111.3	82.0	58.6	29.3	11.7	11.7
80°	134.8	158.2	175.8	164.1	146.5	105.5	76.2	41.0	23.4	5.9	5.9
82.5°	128.9	158.2	175.8	158.2	140.6	99.6	76.2	46.9	17.6	5.9	5.9
85°	29.3	41.0	52.7	64.4	76.2	76.2	58.6	35.2	17.6	5.9	5.9
87.5°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	5.9	5.9	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)