

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: P532011

Luminaire Tested: **GALN-SA7B-750-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532011
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-SA7B-750-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 800mA 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: 26212 lumens
Efficiency: N/A
Efficacy: 91.7 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

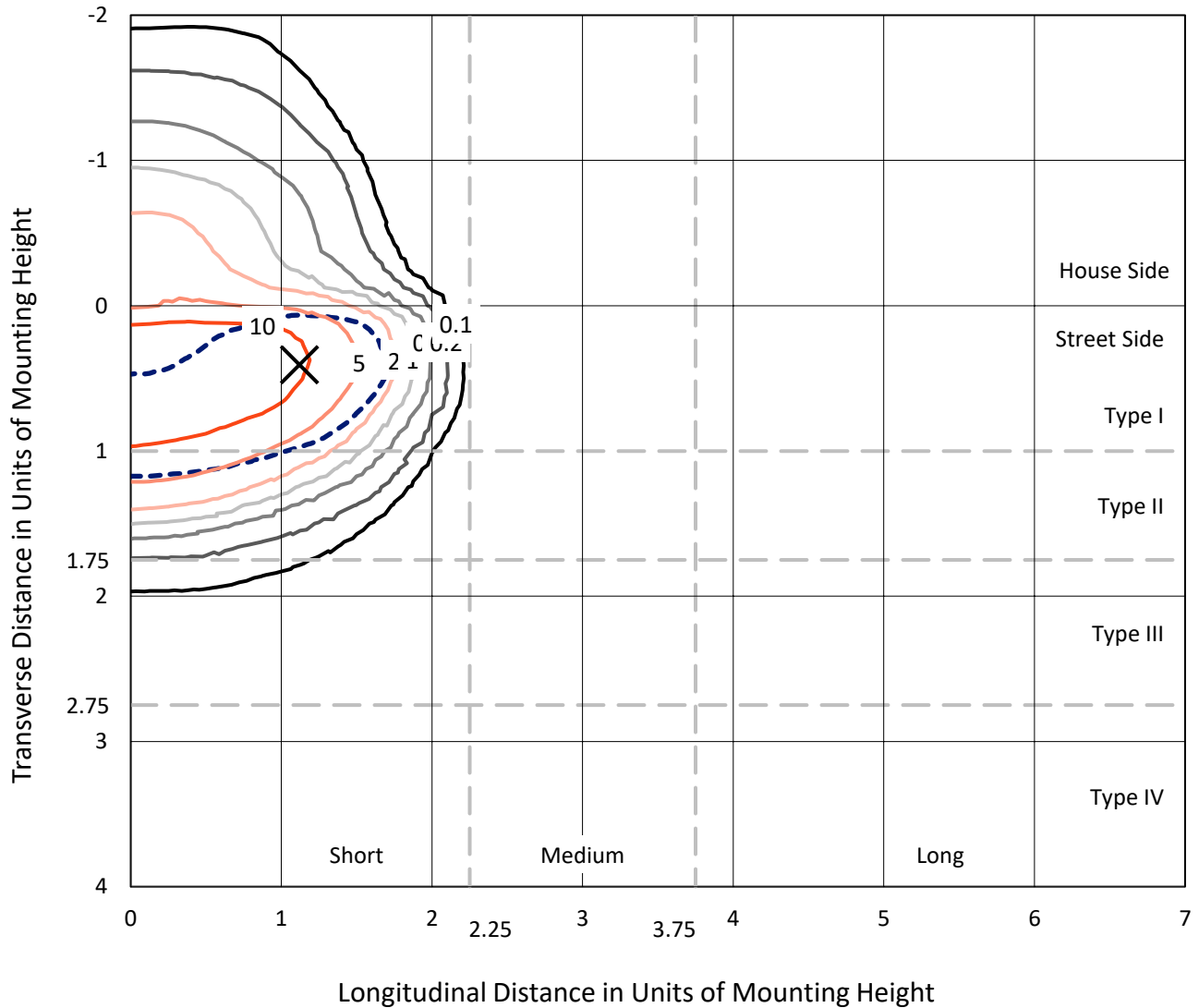
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

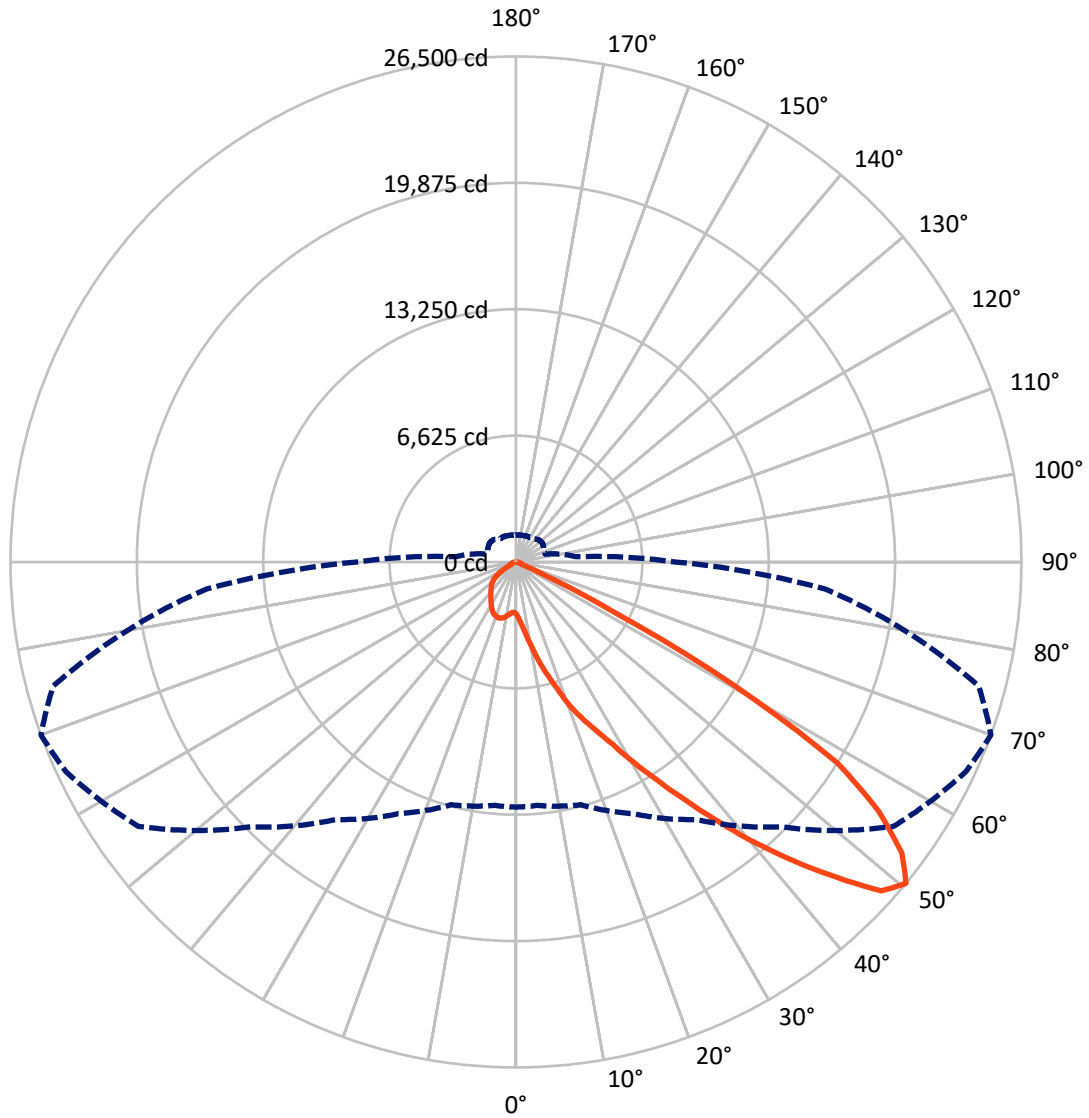
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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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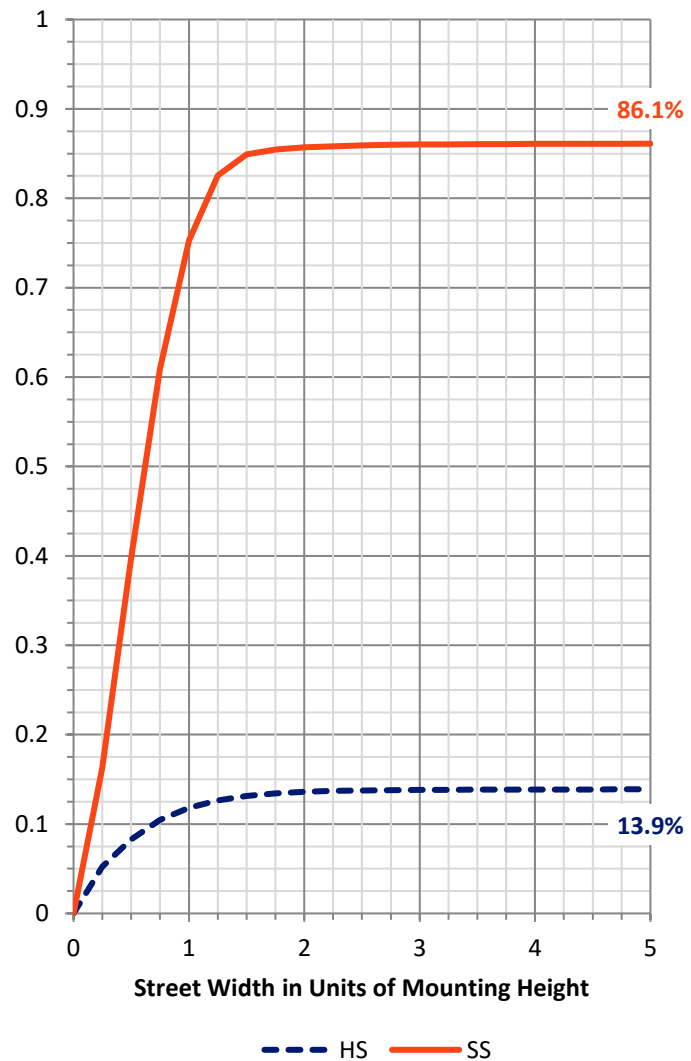
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3660.7	0.0	3660.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	22551.3	0.0	22551.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	26212.0	0.0	26212.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.1	1.3
10°-20°	1527.2	5.8
20°-30°	3203.8	12.2
30°-40°	5522.3	21.1
40°-50°	8070.7	30.8
50°-60°	6285.8	24.0
60°-70°	1065.0	4.1
70°-80°	146.3	0.6
80°-90°	37.9	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°	26212.0	100.0
0°-180°	26212.0	100.0

Coefficient of Utilization



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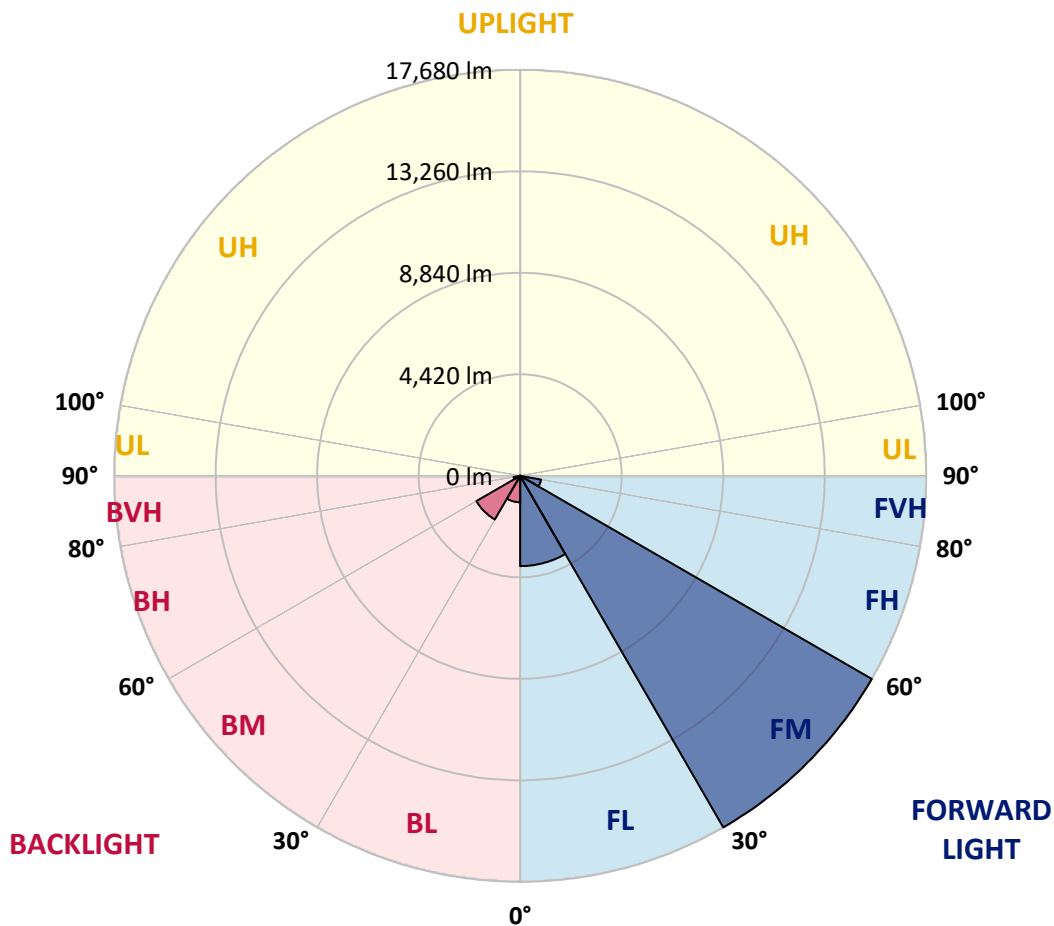
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3932.1	15.0			
FM (30°-60°)	17679.5	67.4			
FH (60°-80°)	922.1	3.5			G1/1800
FVH (80°-90°)	17.5	0.1			G1/100
BL (0°-30°)	1151.9	4.4	B3/2500		
BM (30°-60°)	2199.2	8.4	B2/2500		
BH (60°-80°)	289.2	1.1	B1/500		G1/500
BVH (80°-90°)	20.4	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°	2715.0	2715.0	2715.0	2715.0	2715.0	2715.0	2715.0	2715.0	2715.0	2715.0	2715.0
2.5°	3555.4	3529.6	3473.5	3370.1	3327.0	3223.6	3163.2	3046.9	2973.6	2891.7	2801.2
5°	5007.8	4874.2	4792.3	4675.9	4335.5	4124.3	3775.2	3477.8	3339.9	3189.1	2982.2
7.5°	6507.5	6421.3	6309.3	6059.3	5826.6	5387.0	4788.0	4132.9	3852.8	3594.2	3184.8
10°	7748.7	7507.3	7494.4	7309.1	7054.8	6529.0	5809.3	4994.8	4494.9	4115.7	3473.5
12.5°	8614.9	8395.1	8494.2	8472.7	8235.6	7753.0	6921.2	5843.8	5322.4	4731.9	3770.9
15°	9403.5	9313.0	9282.9	9257.0	9162.2	8804.5	8058.9	6878.1	6123.9	5412.9	4107.0
17.5°	10175.0	9942.2	10054.3	10075.8	10067.2	9744.0	9045.8	7860.7	6972.9	6132.6	4460.4
20°	10860.2	10881.7	10730.9	10700.7	10674.9	10661.9	9981.0	8834.7	8015.9	6886.7	4921.6
22.5°	11739.3	11588.5	11722.1	11635.9	11467.8	11364.4	10842.9	9696.6	8920.9	7796.1	5391.3
25°	12778.0	12898.6	12584.0	12549.6	12364.2	12006.5	11536.8	10661.9	9791.4	8640.7	5899.8
27.5°	14057.9	13846.7	13764.9	13575.2	13239.1	13088.3	12536.6	11657.5	10842.9	9528.5	6391.1
30°	15156.9	15100.8	14691.4	14467.3	14174.3	14170.0	13398.5	13006.4	12213.4	10920.5	7067.7
32.5°	16053.3	15807.6	15656.8	15501.6	15264.6	15329.2	14678.5	14471.6	13674.4	12213.4	7865.0
35°	16652.3	16475.6	16385.1	16148.1	16079.1	16367.9	16096.4	16010.2	15355.1	14032.1	8800.2
37.5°	16841.9	16897.9	16880.7	16583.3	16729.9	17509.9	17859.0	17634.9	17290.1	15949.8	9813.0
40°	17010.0	17048.8	16962.6	17311.7	17729.7	18617.5	19880.2	19509.6	19380.3	17893.5	11222.2
42.5°	17104.8	17074.6	17074.6	17678.0	18311.5	20095.7	21832.4	21586.8	21487.7	19962.1	12851.2
45°	16695.4	16402.3	16716.9	17535.8	18811.4	20824.0	23392.5	23733.0	23590.7	22422.8	14756.1
47.5°	15165.5	15346.5	15523.2	16617.8	18203.7	20599.9	24349.2	25508.5	25771.4	24491.4	16005.8
50°	12851.2	12812.4	13178.8	14557.8	16484.2	19634.5	24163.9	26021.4	26499.7	25112.0	16268.7
52.5°	9347.5	9632.0	10028.4	11398.9	13683.0	17135.0	21772.1	24698.3	25336.1	24349.2	16096.4
55°	5443.0	5128.4	6020.5	7179.8	9334.6	12924.5	18406.3	21892.8	23073.6	22961.5	15225.8
57.5°	2180.7	2111.7	2417.7	3258.1	4869.8	8011.5	13385.6	17988.3	19880.2	21030.8	13381.3
60°	956.7	935.2	1098.9	1327.4	1991.0	3693.3	7322.0	11187.7	13161.5	14695.7	9209.6
62.5°	689.5	680.9	762.8	844.7	1051.5	1607.5	3077.1	4507.8	5619.7	6787.6	4124.3
65°	555.9	577.5	633.5	676.6	775.7	892.1	1086.0	1254.1	1538.5	1594.6	909.3
67.5°	452.5	469.7	521.5	568.9	586.1	482.7	499.9	439.6	439.6	392.2	314.6
70°	331.8	336.1	396.5	452.5	362.0	193.9	340.5	340.5	306.0	293.1	267.2
72.5°	245.6	250.0	297.4	280.1	142.2	120.7	250.0	275.8	250.0	237.0	215.5
75°	181.0	185.3	155.1	64.6	60.3	77.6	146.5	189.6	181.0	176.7	163.8
77.5°	34.5	25.9	21.5	30.2	43.1	64.6	94.8	116.4	120.7	129.3	120.7
80°	4.3	4.3	12.9	25.9	47.4	69.0	99.1	112.0	116.4	120.7	112.0
82.5°	0.0	4.3	12.9	25.9	47.4	64.6	86.2	99.1	107.7	112.0	107.7
85°	0.0	4.3	8.6	21.5	38.8	47.4	43.1	30.2	25.9	30.2	21.5
87.5°	0.0	0.0	4.3	4.3	8.6	8.6	8.6	8.6	8.6	8.6	8.6
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°	2715.0	2715.0	2715.0	2715.0	2715.0	2715.0	2715.0	2715.0	2715.0	2715.0	2715.0
2.5°	2749.5	2732.3	2672.0	2607.3	2551.3	2577.1	2551.3	2529.7	2538.4	2529.7	2521.1
5°	2900.4	2822.8	2693.5	2637.5	2590.1	2585.8	2572.8	2568.5	2572.8	2572.8	2534.0
7.5°	3042.6	2917.6	2779.7	2719.4	2663.3	2667.6	2637.5	2637.5	2633.2	2611.6	2603.0
10°	3258.1	3090.0	2913.3	2805.5	2736.6	2723.7	2693.5	2663.3	2663.3	2663.3	2620.2
12.5°	3495.1	3283.9	3042.6	2917.6	2835.7	2771.1	2723.7	2715.0	2667.6	2659.0	2637.5
15°	3701.9	3434.7	3128.8	2956.4	2853.0	2766.8	2693.5	2646.1	2624.5	2611.6	2594.4
17.5°	3904.5	3564.0	3176.2	2956.4	2844.3	2745.2	2667.6	2624.5	2572.8	2581.4	2547.0
20°	4176.0	3701.9	3189.1	2900.4	2762.5	2667.6	2564.2	2542.7	2512.5	2486.6	2495.3
22.5°	4438.9	3801.1	3150.3	2831.4	2633.2	2521.1	2469.4	2443.5	2430.6	2409.1	2378.9
25°	4675.9	3908.8	3090.0	2706.4	2495.3	2413.4	2366.0	2361.7	2331.5	2331.5	2275.5
27.5°	4917.3	3947.6	2986.6	2559.9	2374.6	2327.2	2305.6	2297.0	2284.1	2253.9	2215.1
30°	5193.1	3960.5	2835.7	2409.1	2266.8	2215.1	2245.3	2266.8	2210.8	2154.8	2172.0
32.5°	5421.5	3930.4	2654.7	2266.8	2189.3	2163.4	2223.8	2245.3	2180.7	2120.3	2090.2
35°	5697.3	3857.1	2478.0	2154.8	2111.7	2163.4	2215.1	2215.1	2085.8	2012.6	1995.3
37.5°	6115.3	3775.2	2314.3	2060.0	2029.8	2137.6	2206.5	2159.1	1956.6	1866.1	1844.5
40°	6563.5	3723.5	2154.8	1965.2	1986.7	2094.5	2133.3	1986.7	1779.9	1723.8	1706.6
42.5°	7214.3	3620.1	2012.6	1883.3	1947.9	2034.1	2034.1	1771.2	1693.7	1663.5	1659.2
45°	8024.5	3546.8	1887.6	1814.3	1891.9	1913.5	1844.5	1659.2	1603.2	1594.6	1598.9
47.5°	8421.0	3404.6	1758.3	1732.5	1788.5	1792.8	1611.8	1568.7	1521.3	1508.4	1499.7
50°	8360.6	3150.3	1590.2	1624.7	1702.3	1659.2	1469.6	1478.2	1435.1	1430.8	1409.2
52.5°	7938.3	2749.5	1422.2	1504.0	1590.2	1465.3	1353.2	1344.6	1344.6	1288.6	1267.0
55°	7037.6	2215.1	1219.6	1323.0	1426.5	1232.5	1202.4	1193.8	1172.2	1120.5	1107.6
57.5°	5572.3	1624.7	917.9	1030.0	1211.0	1047.2	1042.9	1004.1	948.1	909.3	909.3
60°	3314.1	935.2	577.5	629.2	801.6	849.0	943.8	926.6	831.8	771.4	754.2
62.5°	1512.7	482.7	366.3	374.9	431.0	551.6	741.3	857.6	724.0	620.6	612.0
65°	508.5	357.7	301.7	288.7	297.4	331.8	443.9	607.7	577.5	478.4	461.1
67.5°	310.3	318.9	284.4	262.9	262.9	258.6	254.3	275.8	340.5	331.8	336.1
70°	267.2	293.1	262.9	237.0	228.4	215.5	181.0	150.8	129.3	150.8	159.5
72.5°	215.5	232.7	224.1	202.6	181.0	163.8	129.3	99.1	73.3	64.6	64.6
75°	159.5	172.4	181.0	155.1	137.9	116.4	94.8	64.6	38.8	25.9	25.9
77.5°	116.4	129.3	133.6	120.7	103.4	81.9	60.3	43.1	21.5	8.6	8.6
80°	99.1	116.4	129.3	120.7	107.7	77.6	56.0	30.2	17.2	4.3	4.3
82.5°	94.8	116.4	129.3	116.4	103.4	73.3	56.0	34.5	12.9	4.3	4.3
85°	21.5	30.2	38.8	47.4	56.0	56.0	43.1	25.9	12.9	4.3	4.3
87.5°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	4.3	4.3	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)