

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: P532401

Luminaire Tested: **GALN-SA7D-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532401
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-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 32454 lumens
Efficiency: N/A
Efficacy: 75.0 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

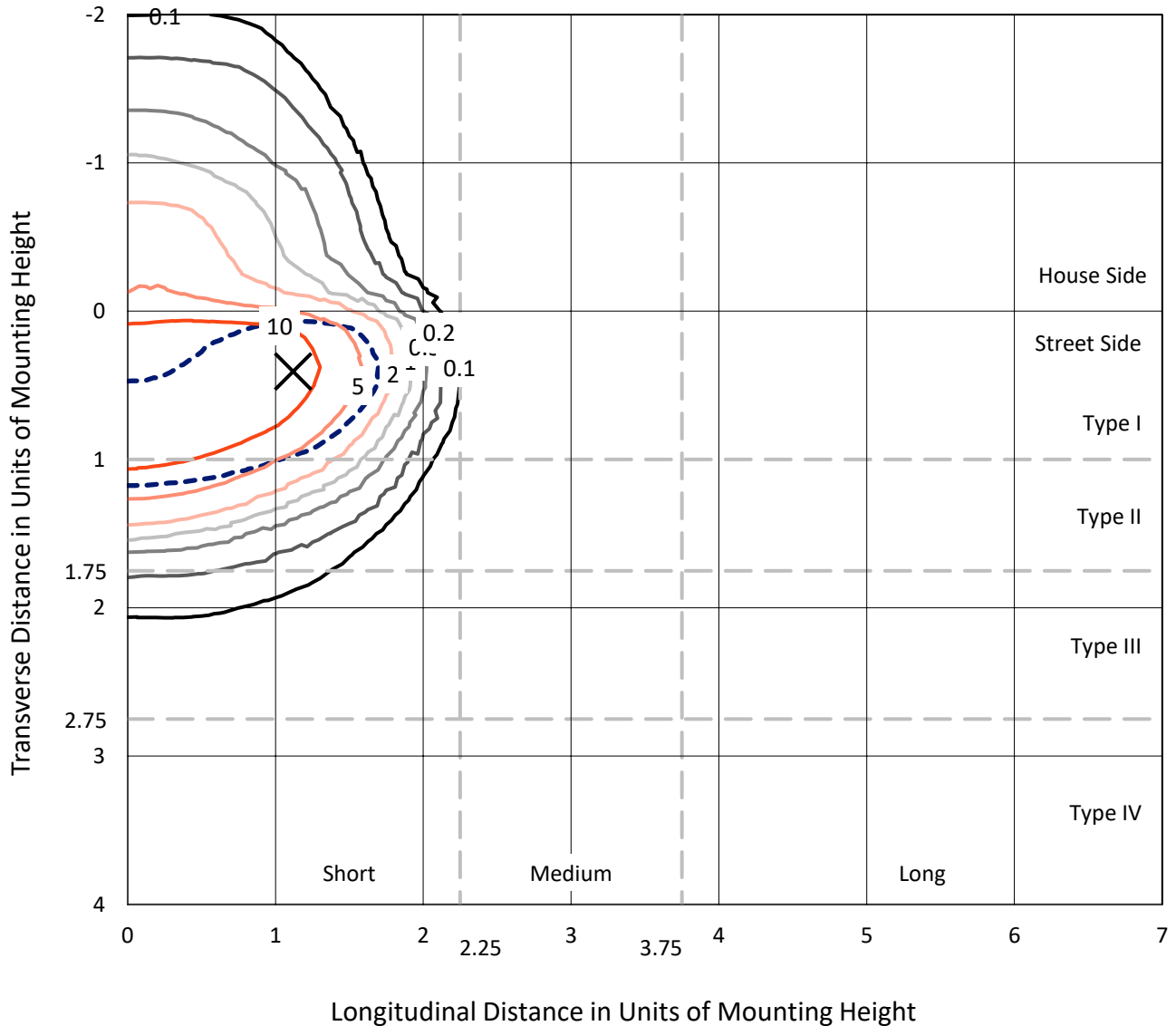
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

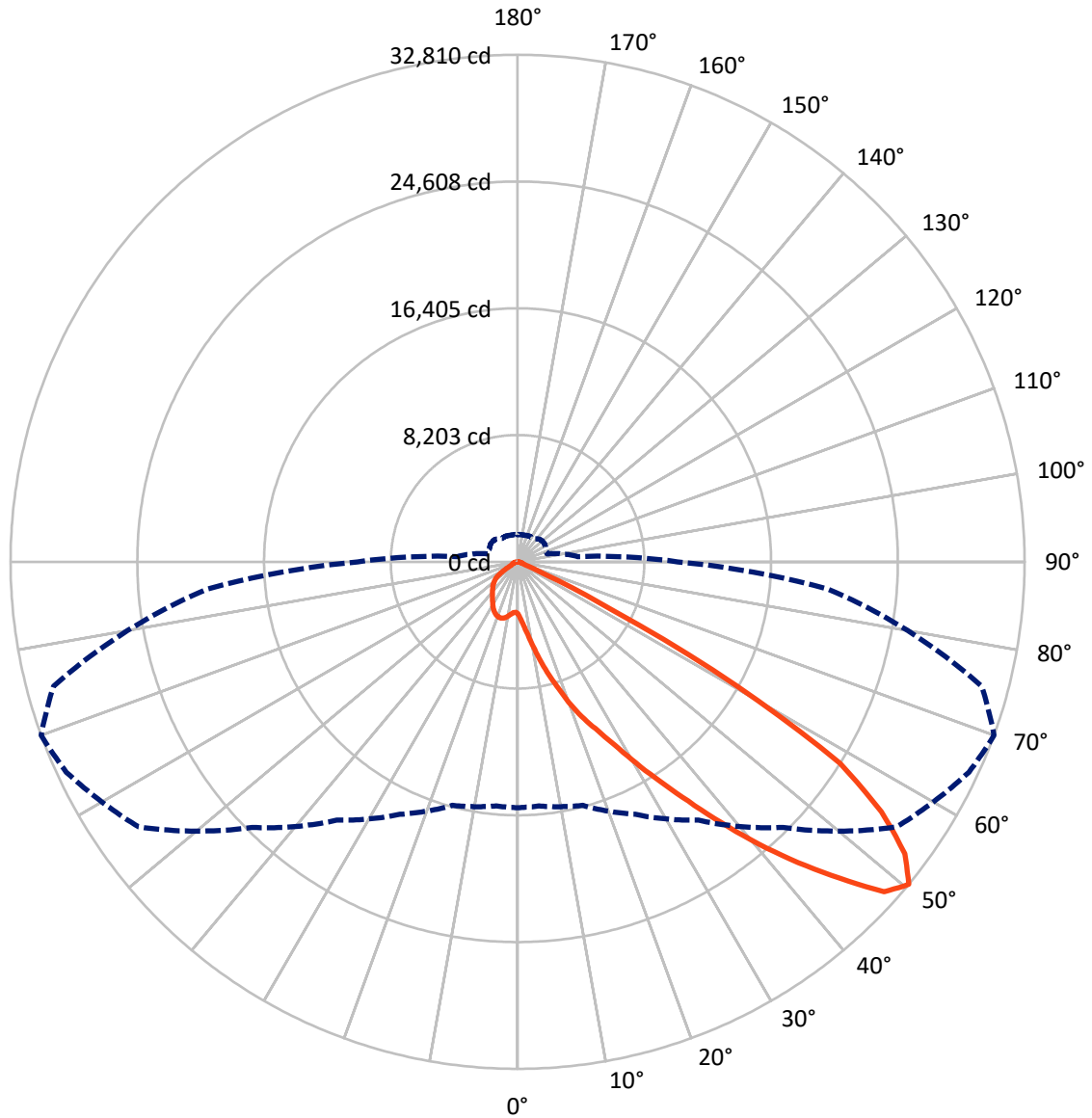
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 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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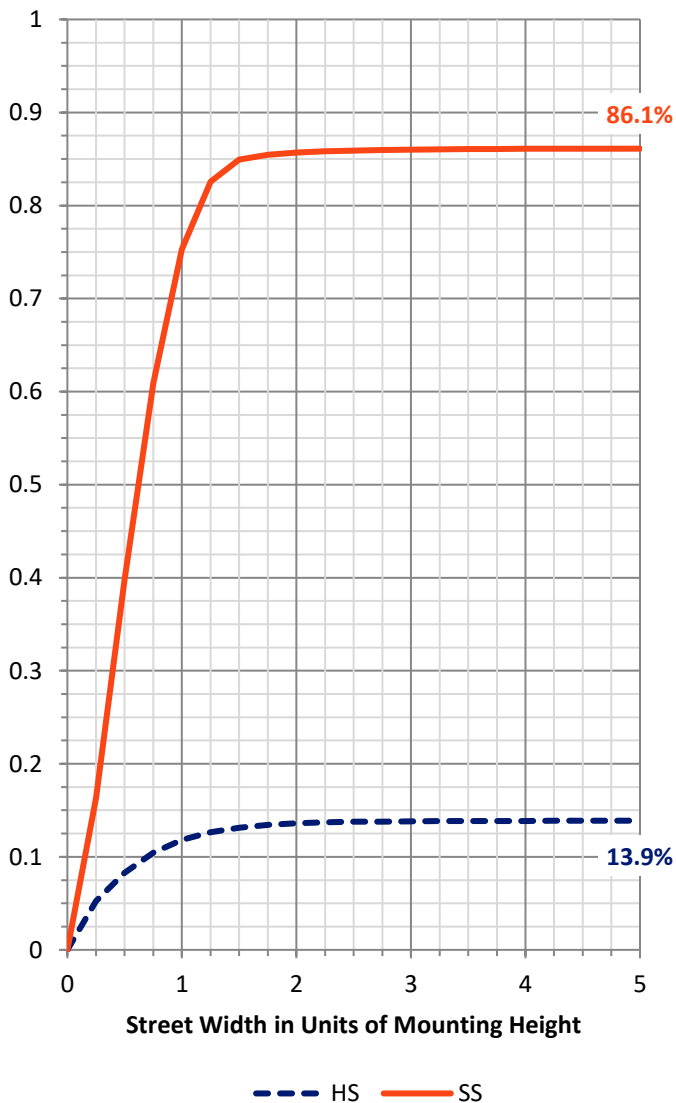
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4532.4	0.0	4532.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	27921.6	0.0	27921.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	32454.0	0.0	32454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.1	1.3
10°-20°	1890.9	5.8
20°-30°	3966.7	12.2
30°-40°	6837.3	21.1
40°-50°	9992.6	30.8
50°-60°	7782.6	24.0
60°-70°	1318.6	4.1
70°-80°	181.1	0.6
80°-90°	46.9	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°	32454.0	100.0
0°-180°	32454.0	100.0

Coefficient of Utilization

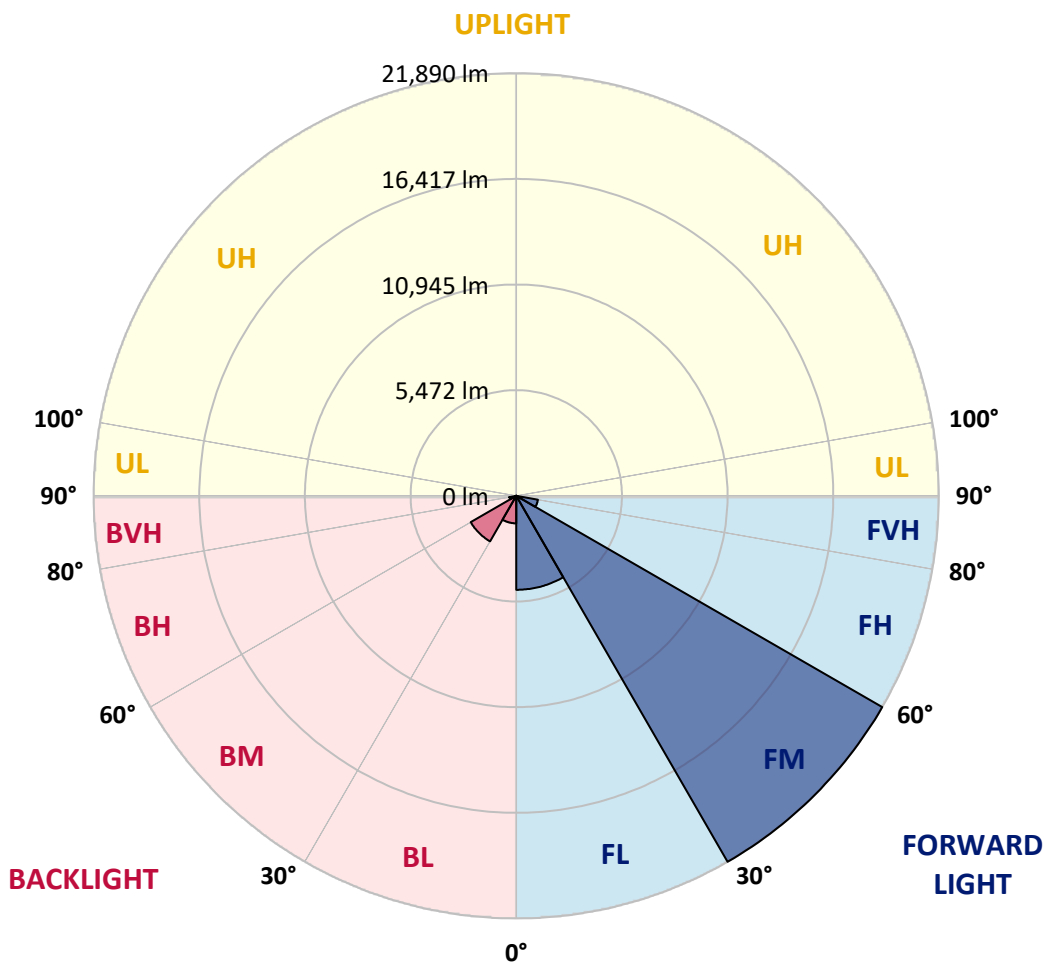


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4868.5	15.0			
FM (30°-60°)	21889.7	67.4			
FH (60°-80°)	1141.7	3.5			G1/1800
FVH (80°-90°)	21.7	0.1			G1/100
BL (0°-30°)	1426.2	4.4	B3/2500		
BM (30°-60°)	2722.9	8.4	B3/5000		
BH (60°-80°)	358.0	1.1	B1/500		G1/500
BVH (80°-90°)	25.2	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°	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6
2.5°	4402.1	4370.1	4300.7	4172.6	4119.3	3991.2	3916.5	3772.5	3681.7	3580.4	3468.3
5°	6200.3	6034.9	5933.5	5789.4	5367.9	5106.4	4674.2	4306.0	4135.3	3948.5	3692.4
7.5°	8057.2	7950.4	7811.7	7502.2	7214.1	6669.8	5928.1	5117.1	4770.3	4450.1	3943.2
10°	9593.9	9295.1	9279.1	9049.6	8734.8	8083.8	7192.7	6184.3	5565.3	5095.8	4300.7
12.5°	10666.4	10394.3	10517.0	10490.3	10196.8	9599.2	8569.4	7235.4	6589.8	5858.8	4668.9
15°	11642.9	11530.8	11493.5	11461.4	11344.1	10901.2	9978.1	8516.0	7582.3	6701.8	5085.1
17.5°	12598.0	12309.8	12448.6	12475.3	12464.6	12064.4	11200.0	9732.6	8633.4	7592.9	5522.6
20°	13446.4	13473.1	13286.3	13249.0	13216.9	13200.9	12357.9	10938.5	9924.7	8526.7	6093.6
22.5°	14534.9	14348.1	14513.6	14406.8	14198.7	14070.7	13425.0	12005.7	11045.2	9652.6	6675.2
25°	15820.8	15970.2	15580.7	15538.0	15308.6	14865.7	14284.1	13200.9	12123.1	10698.4	7304.8
27.5°	17405.6	17144.1	17042.8	16808.0	16391.8	16205.0	15522.0	14433.5	13425.0	11797.6	7913.1
30°	18766.2	18696.9	18190.0	17912.5	17549.7	17544.3	16589.2	16103.6	15121.8	13521.1	8750.8
32.5°	19876.1	19572.0	19385.2	19193.1	18899.6	18979.7	18174.0	17917.8	16930.7	15121.8	9738.0
35°	20617.8	20399.0	20287.0	19993.5	19908.1	20265.6	19929.5	19822.7	19011.7	17373.6	10895.8
37.5°	20852.6	20921.9	20900.6	20532.4	20713.8	21679.6	22111.8	21834.4	21407.5	19748.0	12149.8
40°	21060.7	21108.7	21002.0	21434.2	21951.8	23050.9	24614.3	24155.5	23995.4	22154.5	13894.6
42.5°	21178.1	21140.7	21140.7	21887.7	22672.1	24881.1	27031.5	26727.4	26604.6	24715.7	15911.6
45°	20671.1	20308.3	20697.8	21711.6	23291.1	25782.9	28963.1	29384.6	29208.5	27762.5	18270.0
47.5°	18776.9	19001.0	19219.8	20575.1	22538.7	25505.4	30147.6	31583.0	31908.5	30323.7	19817.4
50°	15911.6	15863.5	16317.1	18024.6	20409.7	24310.2	29918.2	32218.0	32810.2	31092.1	20142.9
52.5°	11573.5	11925.7	12416.6	14113.4	16941.4	21215.4	26956.8	30579.8	31369.6	30147.6	19929.5
55°	6739.2	6349.7	7454.2	8889.6	11557.5	16002.3	22789.5	27106.2	28568.2	28429.5	18851.6
57.5°	2699.9	2614.6	2993.4	4033.9	6029.5	9919.4	16573.2	22271.9	24614.3	26039.0	16567.9
60°	1184.6	1157.9	1360.6	1643.4	2465.2	4572.8	9065.6	13851.9	16295.7	18195.3	11402.7
62.5°	853.7	843.1	944.4	1045.8	1302.0	1990.3	3809.8	5581.3	6958.0	8404.0	5106.4
65°	688.3	715.0	784.4	837.7	960.5	1104.5	1344.6	1552.7	1904.9	1974.3	1125.9
67.5°	560.3	581.6	645.6	704.3	725.7	597.6	619.0	544.3	544.3	485.6	389.5
70°	410.9	416.2	490.9	560.3	448.2	240.1	421.5	421.5	378.8	362.8	330.8
72.5°	304.1	309.5	368.2	346.8	176.1	149.4	309.5	341.5	309.5	293.5	266.8
75°	224.1	229.4	192.1	80.0	74.7	96.0	181.4	234.8	224.1	218.8	202.8
77.5°	42.7	32.0	26.7	37.4	53.4	80.0	117.4	144.1	149.4	160.1	149.4
80°	5.3	5.3	16.0	32.0	58.7	85.4	122.7	138.7	144.1	149.4	138.7
82.5°	0.0	5.3	16.0	32.0	58.7	80.0	106.7	122.7	133.4	138.7	133.4
85°	0.0	5.3	10.7	26.7	48.0	58.7	53.4	37.4	32.0	37.4	26.7
87.5°	0.0	0.0	5.3	5.3	10.7	10.7	10.7	10.7	10.7	10.7	10.7
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°	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6	3361.6
2.5°	3404.3	3382.9	3308.2	3228.2	3158.8	3190.8	3158.8	3132.2	3142.8	3132.2	3121.5
5°	3591.0	3495.0	3334.9	3265.5	3206.9	3201.5	3185.5	3180.2	3185.5	3185.5	3137.5
7.5°	3767.1	3612.4	3441.6	3366.9	3297.6	3302.9	3265.5	3265.5	3260.2	3233.5	3222.9
10°	4033.9	3825.8	3607.0	3473.6	3388.3	3372.3	3334.9	3297.6	3297.6	3297.6	3244.2
12.5°	4327.4	4065.9	3767.1	3612.4	3511.0	3431.0	3372.3	3361.6	3302.9	3292.2	3265.5
15°	4583.5	4252.7	3873.8	3660.4	3532.3	3425.6	3334.9	3276.2	3249.5	3233.5	3212.2
17.5°	4834.3	4412.8	3932.5	3660.4	3521.7	3398.9	3302.9	3249.5	3185.5	3196.2	3153.5
20°	5170.5	4583.5	3948.5	3591.0	3420.3	3302.9	3174.8	3148.2	3110.8	3078.8	3089.5
22.5°	5495.9	4706.2	3900.5	3505.7	3260.2	3121.5	3057.5	3025.4	3009.4	2982.7	2945.4
25°	5789.4	4839.6	3825.8	3350.9	3089.5	2988.1	2929.4	2924.1	2886.7	2886.7	2817.3
27.5°	6088.2	4887.7	3697.8	3169.5	2940.1	2881.4	2854.7	2844.0	2828.0	2790.7	2742.6
30°	6429.7	4903.7	3511.0	2982.7	2806.7	2742.6	2780.0	2806.7	2737.3	2667.9	2689.3
32.5°	6712.5	4866.3	3286.9	2806.7	2710.6	2678.6	2753.3	2780.0	2699.9	2625.2	2587.9
35°	7054.0	4775.6	3068.1	2667.9	2614.6	2678.6	2742.6	2742.6	2582.6	2491.8	2470.5
37.5°	7571.6	4674.2	2865.4	2550.5	2513.2	2646.6	2732.0	2673.3	2422.5	2310.4	2283.8
40°	8126.5	4610.2	2667.9	2433.2	2459.8	2593.2	2641.3	2459.8	2203.7	2134.3	2113.0
42.5°	8932.2	4482.1	2491.8	2331.8	2411.8	2518.5	2518.5	2193.0	2097.0	2059.6	2054.3
45°	9935.4	4391.4	2337.1	2246.4	2342.4	2369.1	2283.8	2054.3	1984.9	1974.3	1979.6
47.5°	10426.3	4215.3	2177.0	2145.0	2214.4	2219.7	1995.6	1942.3	1883.6	1867.6	1856.9
50°	10351.6	3900.5	1968.9	2011.6	2107.7	2054.3	1819.5	1830.2	1776.8	1771.5	1744.8
52.5°	9828.7	3404.3	1760.8	1862.2	1968.9	1814.2	1675.5	1664.8	1664.8	1595.4	1568.7
55°	8713.5	2742.6	1510.0	1638.1	1766.2	1526.1	1488.7	1478.0	1451.4	1387.3	1371.3
57.5°	6899.3	2011.6	1136.5	1275.3	1499.4	1296.6	1291.3	1243.3	1173.9	1125.9	1125.9
60°	4103.3	1157.9	715.0	779.0	992.5	1051.2	1168.6	1147.2	1029.8	955.1	933.8
62.5°	1872.9	597.6	453.5	464.2	533.6	683.0	917.8	1061.8	896.4	768.4	757.7
65°	629.6	442.9	373.5	357.5	368.2	410.9	549.6	752.4	715.0	592.3	570.9
67.5°	384.2	394.9	352.2	325.5	325.5	320.2	314.8	341.5	421.5	410.9	416.2
70°	330.8	362.8	325.5	293.5	282.8	266.8	224.1	186.8	160.1	186.8	197.4
72.5°	266.8	288.1	277.5	250.8	224.1	202.8	160.1	122.7	90.7	80.0	80.0
75°	197.4	213.4	224.1	192.1	170.7	144.1	117.4	80.0	48.0	32.0	32.0
77.5°	144.1	160.1	165.4	149.4	128.1	101.4	74.7	53.4	26.7	10.7	10.7
80°	122.7	144.1	160.1	149.4	133.4	96.0	69.4	37.4	21.3	5.3	5.3
82.5°	117.4	144.1	160.1	144.1	128.1	90.7	69.4	42.7	16.0	5.3	5.3
85°	26.7	37.4	48.0	58.7	69.4	69.4	53.4	32.0	16.0	5.3	5.3
87.5°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	5.3	5.3	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)