

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: P532403

Luminaire Tested: **GALN-SA7D-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
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-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29304 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

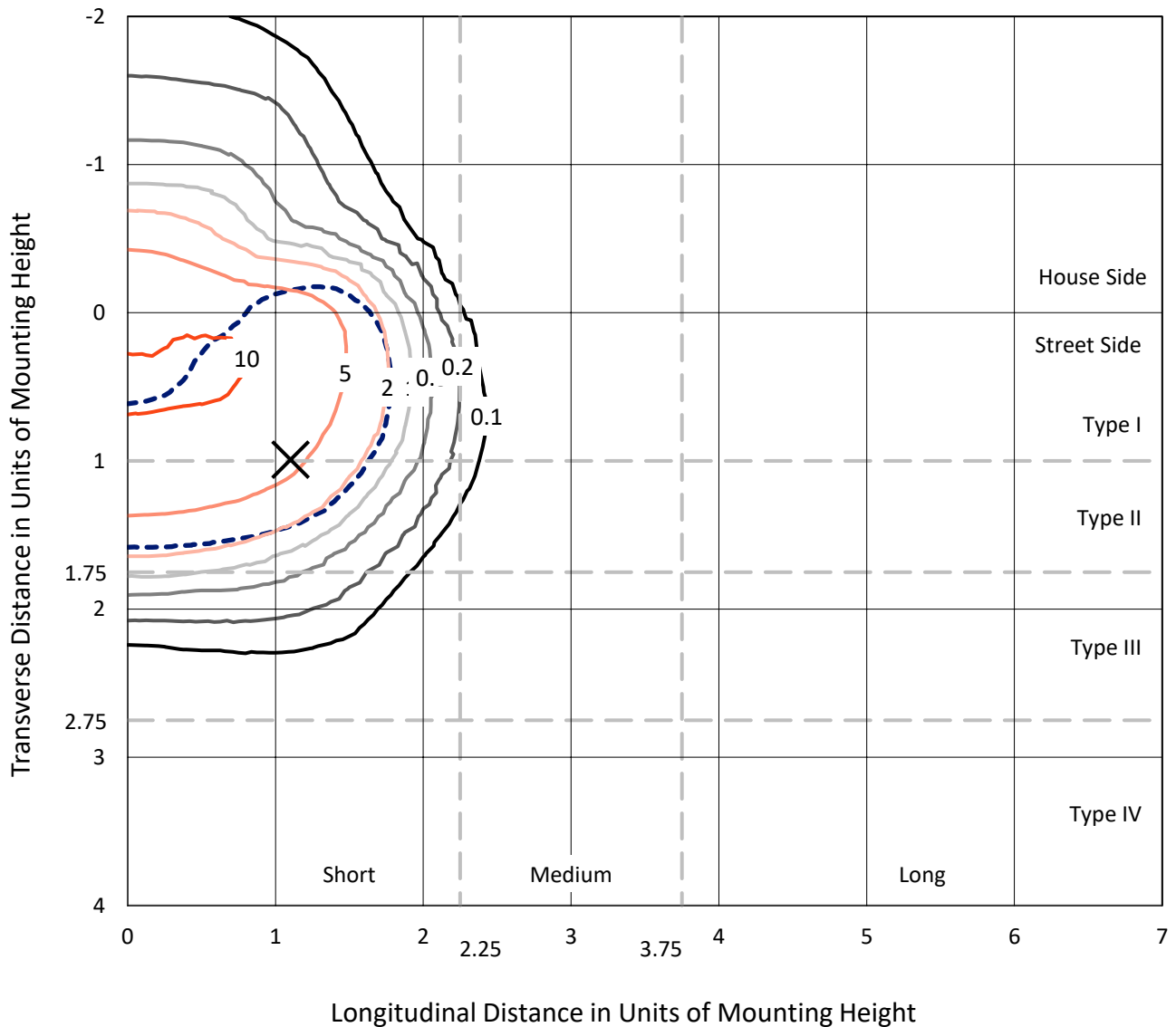
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

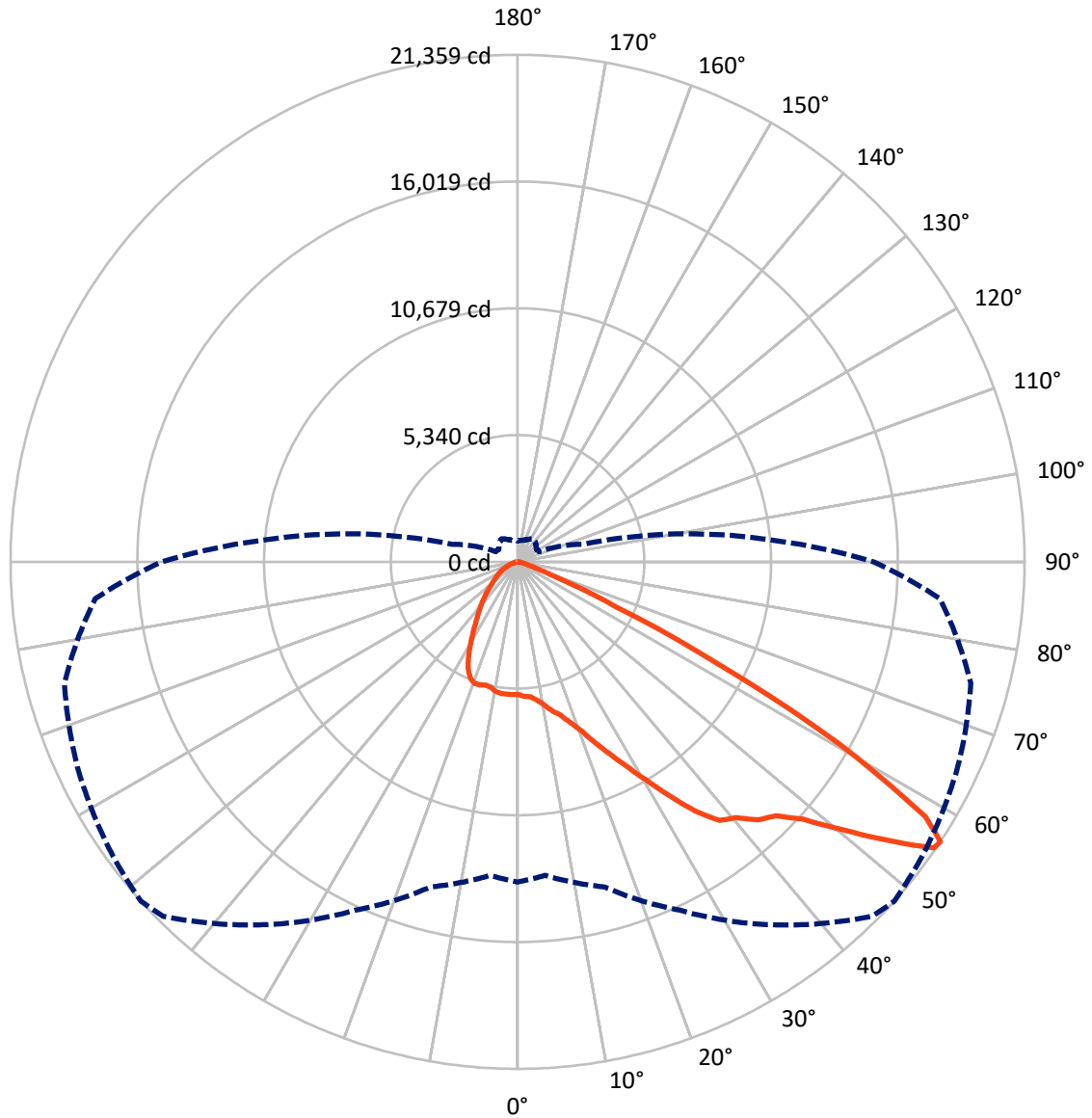
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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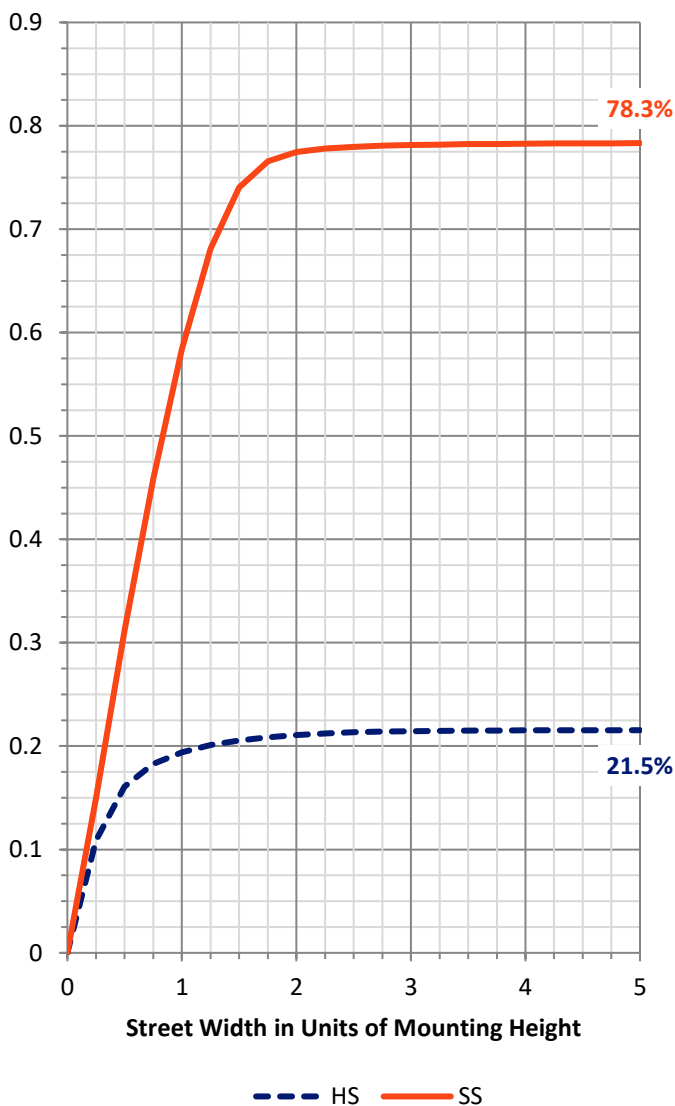
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6373.1	0.0	6373.1
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	22930.9	0.0	22930.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	29304.0	0.0	29304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.2	1.9
10°-20°	1742.4	5.9
20°-30°	3160.4	10.8
30°-40°	4964.3	16.9
40°-50°	7242.1	24.7
50°-60°	8725.3	29.8
60°-70°	2554.7	8.7
70°-80°	324.1	1.1
80°-90°	45.4	0.2
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°	29304.0	100.0
0°-180°	29304.0	100.0

Coefficient of Utilization

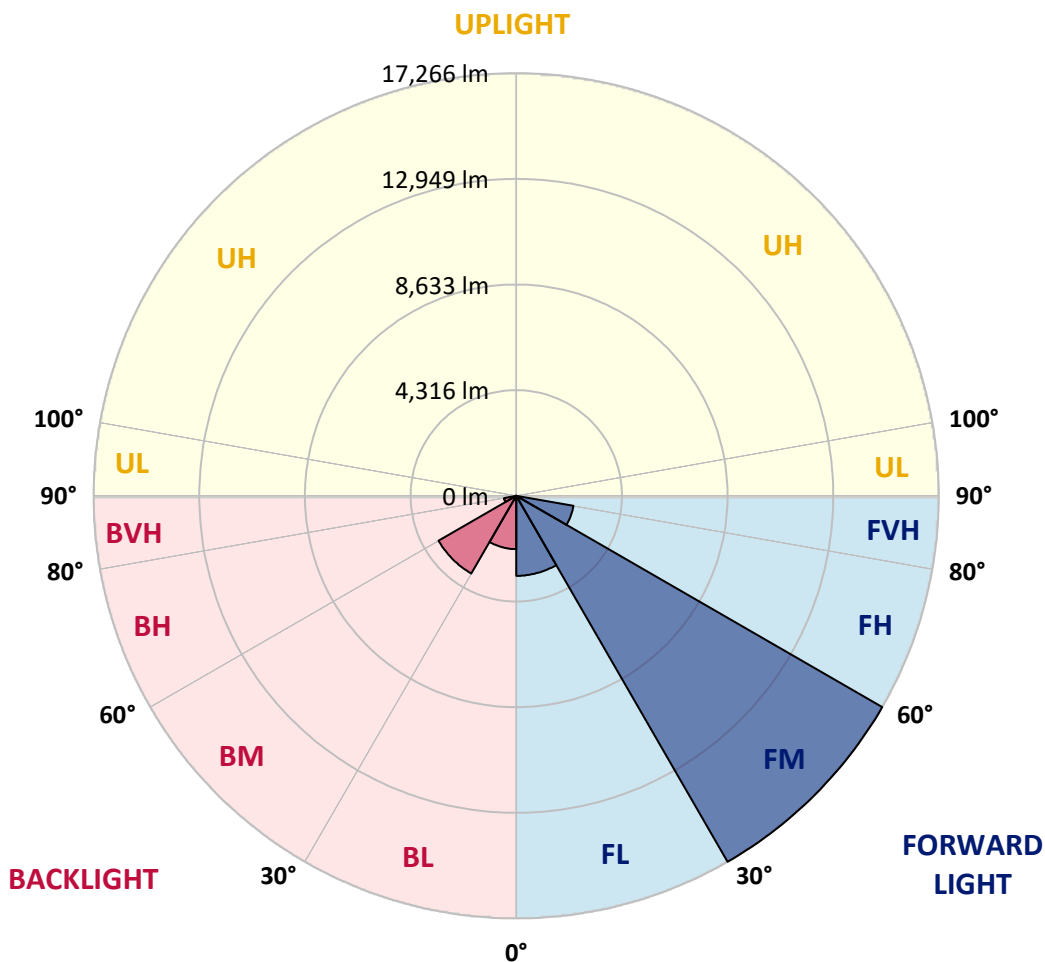


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3269.7	11.2			
FM (30°-60°)	17266.0	58.9			
FH (60°-80°)	2372.4	8.1			G2/5000
FVH (80°-90°)	22.8	0.1			G1/100
BL (0°-30°)	2178.3	7.4	B3/2500		
BM (30°-60°)	3665.8	12.5	B3/5000		
BH (60°-80°)	506.4	1.7	B2/1000		G2/1000
BVH (80°-90°)	22.6	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	5597.1	5597.1	5597.1	5597.1	5597.1	5597.1	5597.1	5597.1	5597.1	5597.1	5597.1
2.5°	5698.5	5671.8	5671.8	5629.1	5677.1	5655.8	5671.8	5618.4	5671.8	5591.7	5655.8
5°	5725.1	5730.5	5709.1	5735.8	5735.8	5767.8	5714.5	5762.5	5789.2	5730.5	5703.8
7.5°	5863.9	5874.5	5869.2	5847.9	5890.5	5885.2	5879.9	5842.5	5853.2	5831.8	5799.8
10°	6136.0	6130.6	6157.3	6104.0	6071.9	6109.3	6120.0	6061.3	6018.6	6002.6	5901.2
12.5°	6530.8	6466.8	6429.4	6376.1	6392.1	6338.7	6434.8	6333.4	6312.1	6216.0	6114.6
15°	6850.9	6840.3	6845.6	6760.2	6664.2	6685.5	6685.5	6632.2	6600.2	6482.8	6338.7
17.5°	7507.2	7283.1	7331.2	7224.4	7144.4	7139.1	7091.1	7101.7	7016.4	6770.9	6552.2
20°	8019.5	7923.4	7848.7	7667.3	7544.6	7581.9	7560.6	7507.2	7480.6	7160.4	6850.9
22.5°	8478.3	8510.3	8387.6	8339.6	8168.9	8184.9	8227.5	8179.5	7976.8	7646.0	7187.1
25°	9123.9	9086.6	8921.2	8862.5	8702.4	8761.1	8926.5	8889.2	8761.1	8163.5	7448.5
27.5°	9886.9	9758.9	9790.9	9524.1	9369.4	9534.8	9732.2	9918.9	9556.1	8771.8	7758.0
30°	10425.8	10292.4	10281.8	10271.1	10233.7	10425.8	10655.3	10826.0	10532.5	9380.0	8270.2
32.5°	10692.6	10724.6	10815.3	10783.3	11108.8	11503.6	11743.7	11989.2	11621.0	10372.5	8947.9
35°	11402.2	11199.5	11402.2	11423.6	11759.7	12597.4	12901.6	13488.5	13397.8	11775.7	9774.9
37.5°	11818.4	11802.4	11829.1	12031.8	12357.3	13392.4	13824.6	14278.1	14107.4	12618.8	10804.7
40°	12506.7	12549.4	12544.1	12698.8	13056.3	13990.0	14166.1	14534.3	14550.3	13787.3	12320.0
42.5°	13611.2	13440.5	13328.4	13488.5	13990.0	14507.6	14859.7	14785.0	15313.3	15206.5	14267.5
45°	14603.6	14705.0	14539.6	14806.4	14987.8	15265.2	15254.6	15414.6	16086.9	16593.8	15734.8
47.5°	15532.0	15596.0	15676.1	15857.5	16252.3	16295.0	16204.3	16134.9	17063.3	17586.2	16871.3
50°	16086.9	16145.6	16519.1	16844.6	17580.9	17676.9	17730.3	17554.2	18183.8	18242.5	17943.7
52.5°	15937.5	16001.6	16524.4	17596.9	18770.7	19651.1	19491.1	19192.3	19154.9	19384.3	18936.2
55°	14614.3	14555.6	15275.9	16946.0	19144.2	21257.2	21278.5	20963.7	20360.8	20206.0	18786.8
56°	13488.5	13259.0	14176.8	16193.6	18664.0	21118.4	21358.5	21022.4	20456.8	19763.2	17863.7
57.5°	11050.1	11268.9	12181.2	13851.3	17004.7	20120.7	20259.4	20179.4	19752.5	18589.3	15718.8
60°	6093.3	6477.5	7283.1	9326.7	12106.5	15441.3	15553.4	16204.3	16284.3	14235.5	10815.3
62.5°	2587.8	2545.1	3382.8	4887.4	6893.6	9321.3	9529.4	10196.4	10319.1	8206.2	5426.3
65°	1051.1	1109.8	1531.3	2459.7	3644.2	4247.2	4540.6	4759.4	5164.9	3388.1	2000.9
67.5°	693.6	688.3	901.7	1403.3	1963.5	1894.1	1894.1	2000.9	1851.5	1381.9	864.4
70°	496.2	512.2	645.6	971.1	1221.9	907.1	869.7	832.4	944.4	912.4	699.0
72.5°	325.5	346.8	432.2	581.6	634.9	496.2	496.2	597.6	779.0	736.3	570.9
75°	213.4	218.8	266.8	336.1	314.8	256.1	282.8	400.2	565.6	544.2	405.5
77.5°	144.1	149.4	181.4	218.8	176.1	144.1	154.7	202.8	277.5	277.5	213.4
80°	53.4	58.7	74.7	69.4	80.0	101.4	112.0	138.7	165.4	165.4	144.1
82.5°	0.0	5.3	16.0	37.3	58.7	80.0	90.7	106.7	122.7	138.7	133.4
85°	0.0	5.3	16.0	26.7	42.7	48.0	53.4	37.3	32.0	32.0	26.7
87.5°	0.0	0.0	5.3	5.3	5.3	5.3	5.3	5.3	10.7	5.3	5.3
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°	5597.1	5597.1	5597.1	5597.1	5597.1	5597.1	5597.1	5597.1	5597.1	5597.1	5597.1
2.5°	5597.1	5591.7	5591.7	5575.7	5607.7	5591.7	5602.4	5597.1	5527.7	5581.1	5543.7
5°	5655.8	5693.1	5634.4	5623.8	5581.1	5597.1	5597.1	5543.7	5591.7	5586.4	5575.7
7.5°	5805.2	5741.1	5677.1	5613.1	5602.4	5586.4	5527.7	5506.4	5543.7	5501.0	5565.1
10°	5869.2	5879.9	5783.8	5698.5	5618.4	5506.4	5426.3	5378.3	5319.6	5383.7	5421.0
12.5°	6162.7	6055.9	5890.5	5757.1	5485.0	5373.0	5292.9	5271.6	5373.0	5394.3	5357.0
15°	6264.0	6248.0	6034.6	5735.8	5453.0	5319.6	5335.6	5292.9	5303.6	5250.3	5260.9
17.5°	6472.1	6290.7	6039.9	5666.4	5447.7	5415.7	5319.6	5148.9	5052.8	5010.2	5047.5
20°	6701.6	6525.5	6162.7	5693.1	5495.7	5410.3	5095.5	4887.4	4690.0	4583.3	4588.6
22.5°	6904.3	6685.5	6109.3	5703.8	5538.4	5186.2	4807.4	4396.6	4151.1	3985.7	3991.1
25°	7149.7	6840.3	6130.6	5725.1	5426.3	4828.7	4284.5	3884.3	3590.9	3478.8	3516.2
27.5°	7288.5	6936.3	6248.0	5773.2	5132.9	4321.9	3734.9	3361.4	3190.7	3137.4	3132.0
30°	7704.7	7149.7	6392.1	5677.1	4642.0	3777.6	3233.4	3004.0	2838.6	2790.5	2801.2
32.5°	8323.6	7539.2	6578.8	5426.3	4140.4	3292.1	2907.9	2737.2	2582.4	2491.7	2481.1
35°	8841.1	8206.2	6776.3	5036.8	3558.9	2918.6	2678.5	2465.1	2230.3	2128.9	2102.2
37.5°	9828.2	8958.5	6733.6	4449.9	3004.0	2641.1	2433.0	2171.6	1968.8	1830.1	1814.1
40°	11140.8	9838.9	6525.5	3734.9	2593.1	2395.7	2171.6	1920.8	1670.1	1552.7	1542.0
42.5°	12736.2	10916.7	6146.6	3009.3	2182.3	2150.3	1947.5	1659.4	1435.3	1349.9	1355.3
45°	14032.7	11839.8	5762.5	2417.0	1878.1	1910.2	1734.1	1462.0	1307.2	1237.9	1237.9
47.5°	15185.2	12464.0	5346.3	1995.5	1595.4	1670.1	1515.3	1355.3	1221.9	1168.5	1157.8
50°	16295.0	13099.0	4930.1	1616.7	1360.6	1435.3	1419.3	1291.2	1184.5	1120.5	1125.8
52.5°	16988.6	13200.4	4401.9	1323.2	1189.8	1275.2	1328.6	1211.2	1093.8	1056.5	1045.8
55°	16140.3	11893.1	3414.8	1088.5	1008.4	1120.5	1221.9	1088.5	997.8	933.7	928.4
56°	14998.5	10633.9	2854.6	1003.1	955.1	1077.8	1184.5	1040.4	939.1	901.7	875.0
57.5°	12698.8	8702.4	2107.6	891.1	885.7	1003.1	1125.8	992.4	875.0	843.0	843.0
60°	7918.1	4898.1	1275.2	747.0	768.3	891.1	1013.8	885.7	779.0	779.0	795.0
62.5°	3606.9	2038.2	773.7	634.9	661.6	768.3	901.7	800.3	741.7	800.3	811.0
65°	1227.2	880.4	560.2	506.9	522.9	634.9	773.7	811.0	805.7	843.0	864.4
67.5°	688.3	565.6	469.5	421.5	410.8	469.5	634.9	811.0	779.0	763.0	773.7
70°	581.6	480.2	416.2	373.5	357.5	378.8	490.9	613.6	549.6	533.6	522.9
72.5°	469.5	400.2	362.8	336.1	288.1	245.4	224.1	234.8	261.4	277.5	304.1
75°	330.8	304.1	304.1	272.1	208.1	154.7	122.7	101.4	69.4	48.0	53.4
77.5°	186.7	186.7	192.1	165.4	133.4	101.4	74.7	53.4	26.7	10.7	5.3
80°	128.1	138.7	149.4	133.4	112.0	90.7	64.0	37.3	16.0	0.0	0.0
82.5°	128.1	144.1	154.7	133.4	112.0	85.4	64.0	37.3	16.0	5.3	0.0
85°	26.7	32.0	37.3	42.7	64.0	64.0	48.0	32.0	16.0	5.3	0.0
87.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	0.0	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)