

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: P950245

Luminaire Tested: **GALN-SB4D-730-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-730-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41868 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 293.6
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



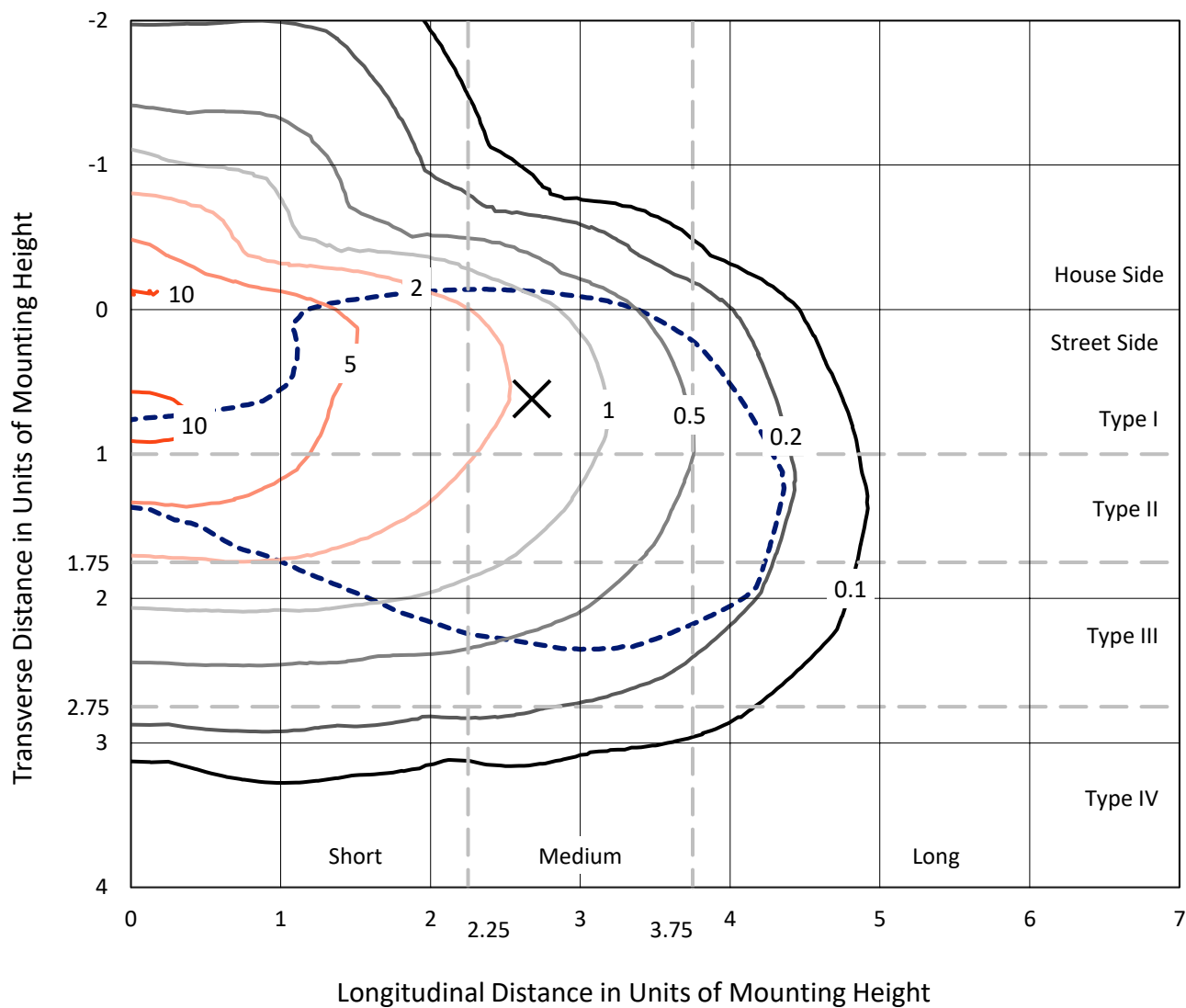
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

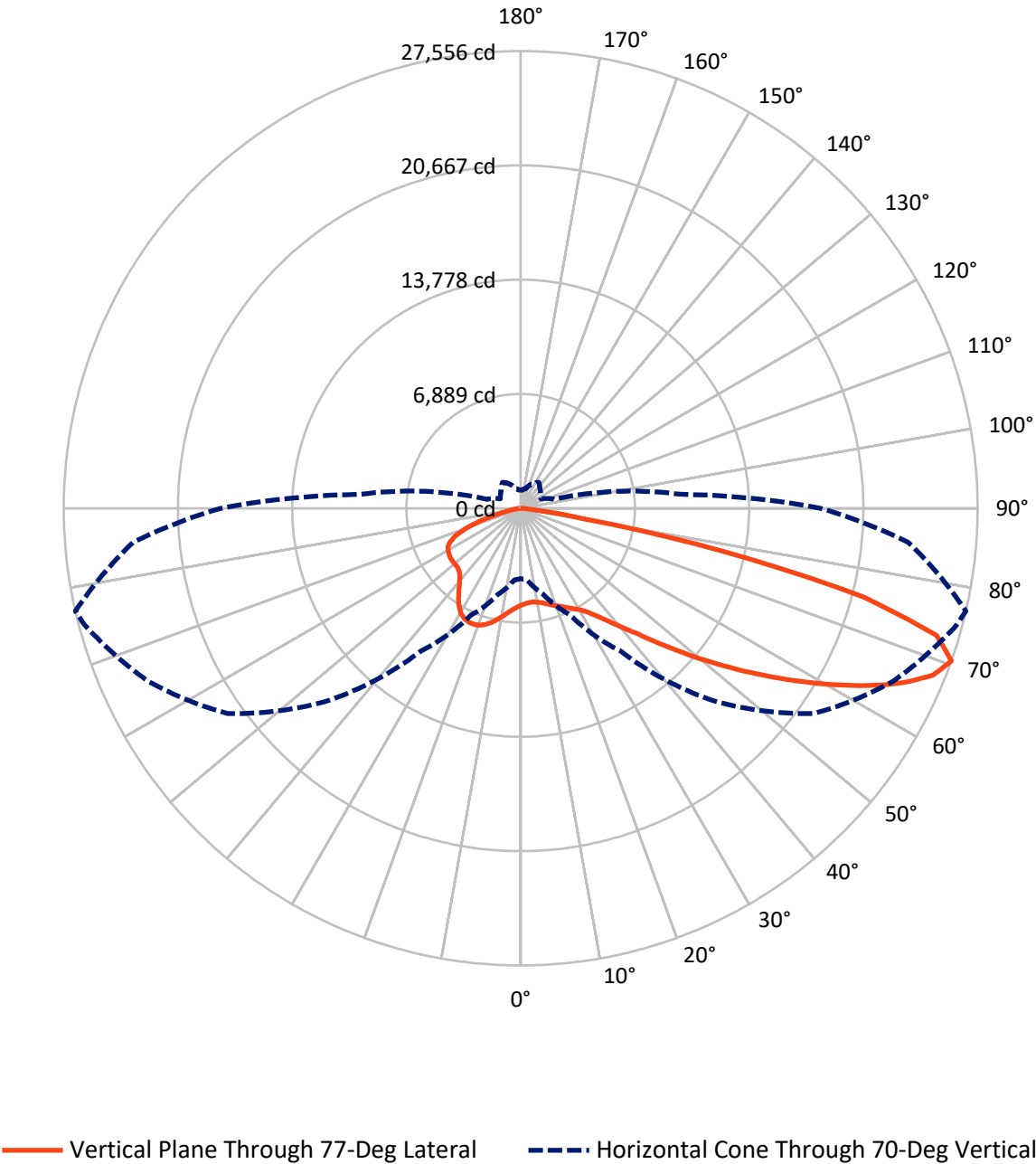
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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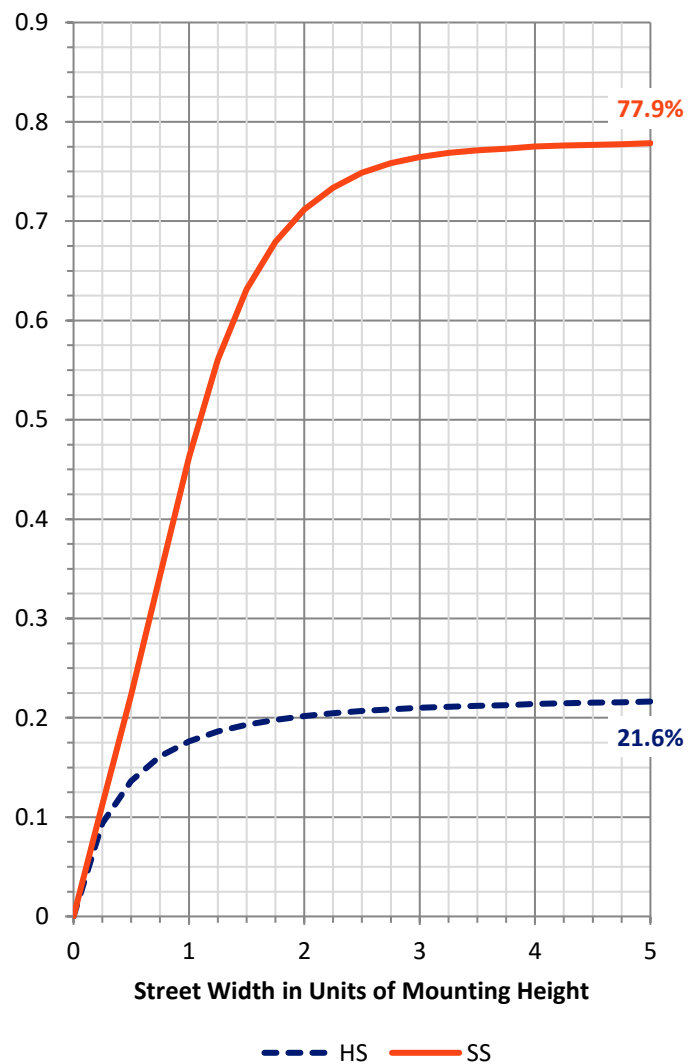
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9168.4	0.0	9168.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	32699.6	0.0	32699.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	41868.0	0.0	41868.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.1	1.3
10°-20°	1607.8	3.8
20°-30°	2749.5	6.6
30°-40°	4421.5	10.6
40°-50°	6903.1	16.5
50°-60°	9220.9	22.0
60°-70°	9828.0	23.5
70°-80°	6050.1	14.5
80°-90°	530.2	1.3
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°	41868.0	100.0
0°-180°	41868.0	100.0

Coefficient of Utilization



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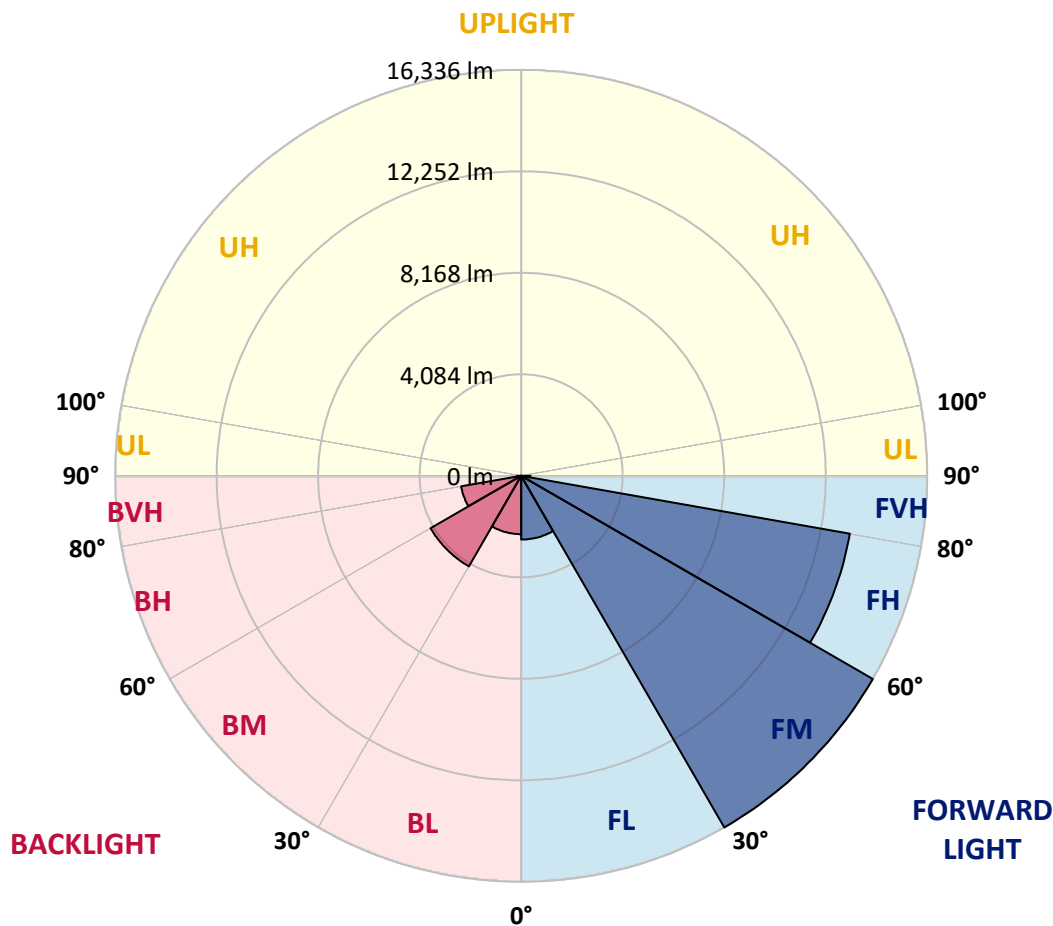
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2565.1	6.1			
FM	(30°-60°)	16336.0	39.0			
FH	(60°-80°)	13427.8	32.1			G5
FVH	(80°-90°)	370.7	0.9			G3/500
BL	(0°-30°)	2349.2	5.6	B3/2500		
BM	(30°-60°)	4209.4	10.1	B3/5000		
BH	(60°-80°)	2450.3	5.9	B3/2500		G3/2500
BVH	(80°-90°)	159.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5841.0	5841.0	5841.0	5841.0	5841.0	5841.0	5841.0	5841.0	5841.0	5841.0	5841.0
2.5°	5384.2	5382.1	5410.0	5418.5	5470.0	5506.5	5575.1	5648.0	5742.3	5753.1	5810.9
5°	5073.3	5073.3	5105.5	5139.8	5206.3	5279.2	5384.2	5510.8	5673.7	5699.4	5843.1
7.5°	4809.6	4826.7	4854.6	4921.1	4998.3	5103.3	5264.2	5444.3	5658.7	5699.4	5931.0
10°	4597.3	4616.6	4650.9	4704.5	4820.3	4966.1	5176.2	5407.8	5695.2	5759.5	6059.7
12.5°	4530.8	4550.1	4569.4	4610.2	4717.4	4888.9	5139.8	5425.0	5783.1	5847.4	6235.5
15°	4685.2	4708.8	4693.8	4683.1	4738.8	4895.3	5156.9	5487.2	5892.4	5984.6	6452.1
17.5°	5041.2	5049.7	5015.4	4914.6	4906.1	4989.7	5238.4	5572.9	6029.7	6130.4	6670.8
20°	5615.8	5600.8	5530.1	5330.6	5217.0	5199.8	5377.8	5701.6	6171.2	6278.4	6906.7
22.5°	6396.3	6379.2	6237.7	5922.4	5669.4	5502.2	5579.4	5868.8	6329.9	6449.9	7136.1
25°	7369.8	7346.2	7138.2	6709.4	6317.0	5903.2	5853.8	6089.7	6525.0	6636.5	7376.3
27.5°	8506.3	8487.0	8261.8	7695.8	7129.7	6452.1	6194.8	6349.2	6728.7	6855.2	7646.4
30°	9728.5	9784.3	9385.4	8776.5	8060.3	7168.3	6653.6	6668.7	6992.4	7106.1	7974.5
32.5°	11165.2	11261.7	10781.3	10009.4	9031.6	7946.6	7232.6	7114.7	7376.3	7470.6	8388.4
35°	12589.0	12698.3	12299.5	11446.1	10320.3	8864.4	7837.3	7627.1	7886.6	7989.5	8937.3
37.5°	13819.8	13965.6	13759.7	13017.8	11699.1	9970.8	8626.4	8229.7	8514.9	8643.5	9674.9
40°	14791.1	15014.1	14999.1	14535.9	13324.4	11313.1	9627.7	8973.7	9295.4	9434.7	10569.1
42.5°	15580.2	15773.2	15940.4	15916.9	15020.6	12837.7	10804.9	9940.8	10185.2	10346.1	11574.7
45°	16124.8	16330.7	16690.9	17079.0	16652.3	14469.5	12153.7	11088.0	11311.0	11553.3	12773.4
47.5°	16611.6	16845.3	17312.8	17928.2	18037.5	16107.7	13631.1	12423.9	12627.6	12878.4	13976.3
50°	16654.5	16856.0	17580.8	18453.5	19021.7	17681.6	15217.8	13922.7	14113.5	14381.6	15265.0
52.5°	15618.8	15936.2	17201.3	18438.5	19474.2	18998.2	16793.9	15481.6	15696.0	16017.6	16598.7
55°	12123.7	12589.0	16088.4	17863.8	19313.4	19849.4	18292.7	17139.1	17413.5	17750.2	17941.0
57.5°	10442.6	10646.3	12771.2	16817.4	18580.0	20070.3	19557.8	18813.7	19255.5	19624.3	19360.5
60°	9385.4	9554.8	10811.4	15189.9	17615.1	19720.8	20535.6	20374.8	21138.1	21577.7	20812.2
62.5°	8253.3	8414.1	9557.0	12683.3	16380.0	19139.7	21153.1	21815.7	23068.0	23548.3	22180.2
65°	7129.7	7266.9	8362.6	10657.0	14810.4	18558.6	21472.6	23061.5	24854.1	25351.6	23316.7
67.5°	5877.4	5991.1	7026.7	8990.9	12902.0	17763.1	21631.3	24041.5	26408.7	26835.4	23878.5
70°	4241.3	4329.3	5399.3	7110.4	10506.9	16395.0	21567.0	24736.2	27215.0	27555.9	23453.9
72.5°	2004.9	2084.2	3340.8	4616.6	7421.3	13731.8	20265.4	24185.1	26395.9	26226.5	20855.1
75°	1070.0	1138.6	1919.1	2532.4	3919.7	9413.3	16583.7	20833.6	22165.2	21341.8	15413.0
77.5°	724.8	778.4	1187.9	1520.3	1790.5	4468.6	10659.1	14424.4	13877.7	12518.2	7719.3
80°	574.7	630.4	973.5	1029.2	866.3	1614.6	4404.3	6677.2	4796.7	3836.1	2195.7
82.5°	441.7	503.9	819.1	746.2	471.7	662.6	1282.3	2112.1	1228.7	934.9	531.8
85°	270.2	336.6	643.3	476.0	265.9	302.3	435.3	587.5	375.2	313.1	190.8
87.5°	137.2	193.0	325.9	173.7	120.1	70.8	115.8	115.8	98.6	85.8	49.3
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°	5841.0	5841.0	5841.0	5841.0	5841.0	5841.0	5841.0	5841.0	5841.0	5841.0	5841.0
2.5°	5862.4	5905.3	5978.2	6046.8	6100.4	6151.9	6203.3	6231.2	6239.8	6274.1	6293.4
5°	5931.0	6010.4	6151.9	6284.8	6368.5	6419.9	6456.4	6477.8	6482.1	6492.8	6510.0
7.5°	6057.5	6184.0	6381.3	6514.3	6576.4	6572.2	6557.2	6503.5	6482.1	6462.8	6467.1
10°	6235.5	6402.8	6645.1	6737.3	6698.7	6595.7	6462.8	6306.3	6233.4	6162.6	6141.2
12.5°	6456.4	6668.7	6906.7	6902.4	6711.5	6447.8	6139.0	5898.9	5746.6	5637.3	5611.5
15°	6724.4	6968.8	7151.1	7005.3	6587.2	6113.3	5660.8	5347.8	5210.6	5090.5	5077.6
17.5°	7001.0	7262.6	7346.2	6973.1	6274.1	5618.0	5105.5	4858.9	4723.8	4659.5	4678.8
20°	7271.2	7530.6	7462.0	6788.7	5798.1	5056.2	4599.4	4464.4	4436.5	4451.5	4445.1
22.5°	7556.4	7788.0	7485.6	6432.8	5191.3	4481.5	4230.6	4234.9	4297.1	4342.1	4352.9
25°	7848.0	8004.5	7423.4	5918.2	4539.4	4059.1	3996.9	4065.5	4187.7	4275.7	4299.2
27.5°	8128.9	8197.5	7288.3	5281.3	3979.7	3756.7	3767.5	3909.0	4093.4	4215.6	4245.6
30°	8446.2	8369.1	7028.9	4565.1	3591.6	3497.3	3587.3	3752.5	3936.9	4046.2	4072.0
32.5°	8804.3	8517.0	6617.2	3902.6	3317.2	3289.3	3437.3	3544.5	3625.9	3658.1	3675.3
35°	9250.3	8725.0	6089.7	3437.3	3070.6	3137.1	3278.6	3225.0	3192.8	3175.7	3192.8
37.5°	9829.3	9005.9	5472.2	3134.9	2871.2	3027.7	3085.6	2918.3	2791.8	2729.6	2744.7
40°	10526.2	9417.6	4878.2	2901.2	2744.7	2933.3	2832.6	2631.0	2470.2	2382.3	2388.7
42.5°	11300.3	9848.6	4378.6	2725.4	2673.9	2856.2	2646.0	2405.9	2146.4	2118.5	2146.4
45°	12112.9	10292.5	4037.6	2590.3	2639.6	2789.7	2538.8	2150.7	1966.3	2079.9	2140.0
47.5°	12925.6	10699.9	3831.8	2489.5	2622.4	2714.6	2444.5	2009.2	1878.4	2043.5	2120.7
50°	13830.5	11064.4	3739.6	2416.6	2603.1	2684.6	2302.9	1972.7	1786.2	1895.5	1977.0
52.5°	14728.9	11347.4	3671.0	2343.7	2575.3	2661.0	2234.3	1929.8	1674.7	1681.1	1726.1
55°	15625.2	11531.8	3595.9	2247.2	2513.1	2609.6	2227.9	1882.7	1591.0	1561.0	1582.5
57.5°	16581.6	11636.9	3503.7	2140.0	2405.9	2478.8	2221.5	1846.2	1565.3	1516.0	1522.4
60°	17555.1	11791.3	3383.6	2009.2	2262.2	2322.2	2206.4	1833.3	1550.3	1466.7	1473.1
62.5°	18427.8	11844.9	3240.0	1884.8	2077.8	2167.8	2174.3	1822.6	1509.6	1365.9	1365.9
65°	19000.3	11613.3	2989.1	1743.3	1878.4	2009.2	2112.1	1786.2	1436.7	1293.0	1293.0
67.5°	18976.7	10952.9	2596.7	1561.0	1685.4	1833.3	2022.0	1724.0	1348.7	1202.9	1209.4
70°	18093.3	9649.2	2099.2	1348.7	1473.1	1644.6	1906.2	1631.8	1243.7	1104.3	1117.2
72.5°	15518.0	7552.1	1524.6	1100.0	1226.5	1449.5	1756.2	1520.3	1136.5	1016.4	1009.9
75°	11085.8	4779.6	1033.5	844.8	954.2	1228.7	1569.6	1389.5	1037.8	1020.7	962.8
77.5°	5663.0	2283.6	684.0	617.5	664.7	969.2	1318.7	1241.5	1052.8	842.7	750.5
80°	1841.9	842.7	431.0	420.3	441.7	645.4	1020.7	1018.5	797.7	572.5	506.0
82.5°	587.5	362.4	280.9	270.2	259.5	405.3	711.9	806.2	538.2	362.4	360.2
85°	233.7	216.6	165.1	152.2	109.4	190.8	373.1	536.1	401.0	261.6	268.0
87.5°	85.8	85.8	45.0	32.2	23.6	64.3	100.8	160.8	229.4	135.1	132.9
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)