

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: P522887

Luminaire Tested: **GALN-SA8C-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56812 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

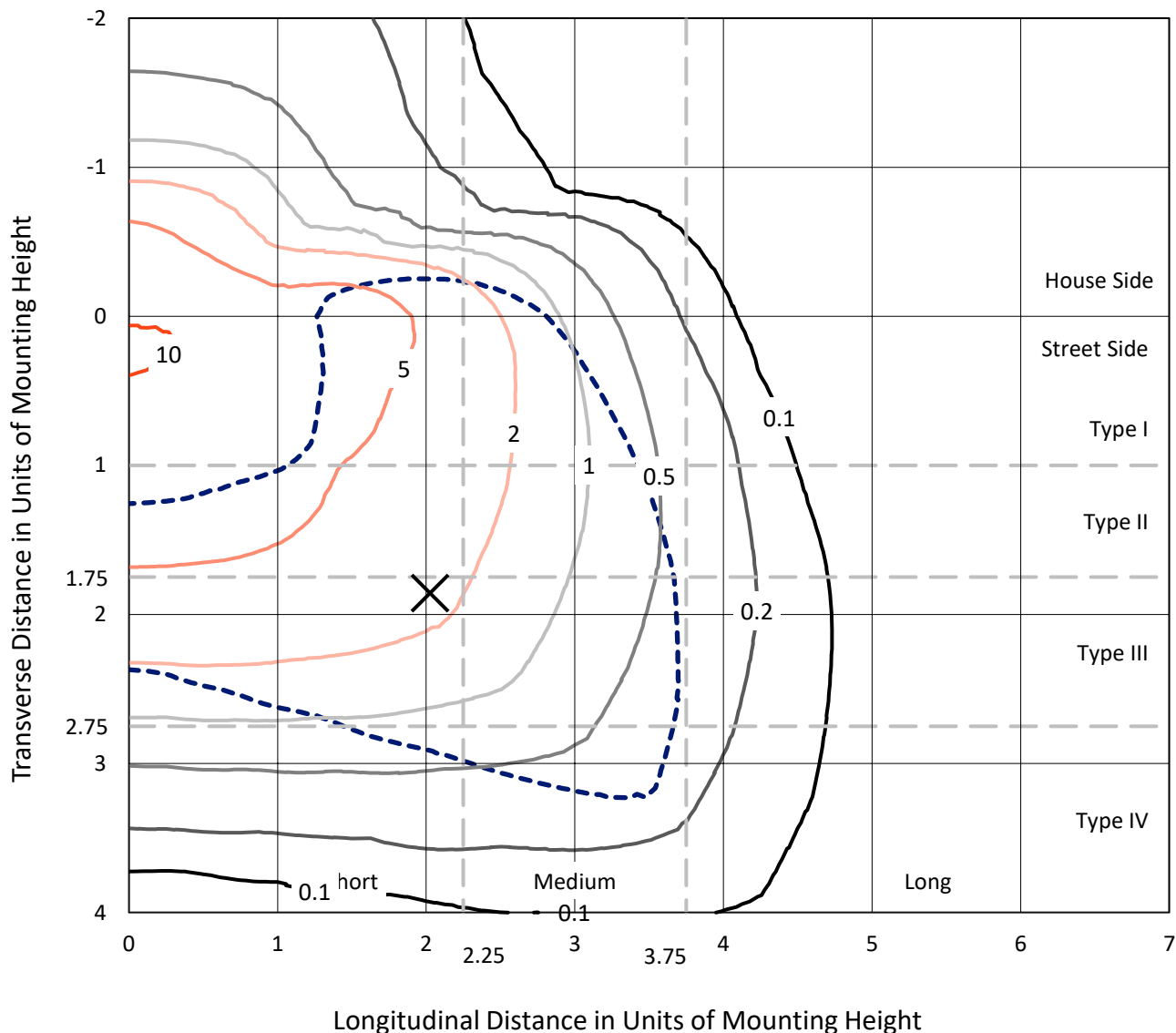
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

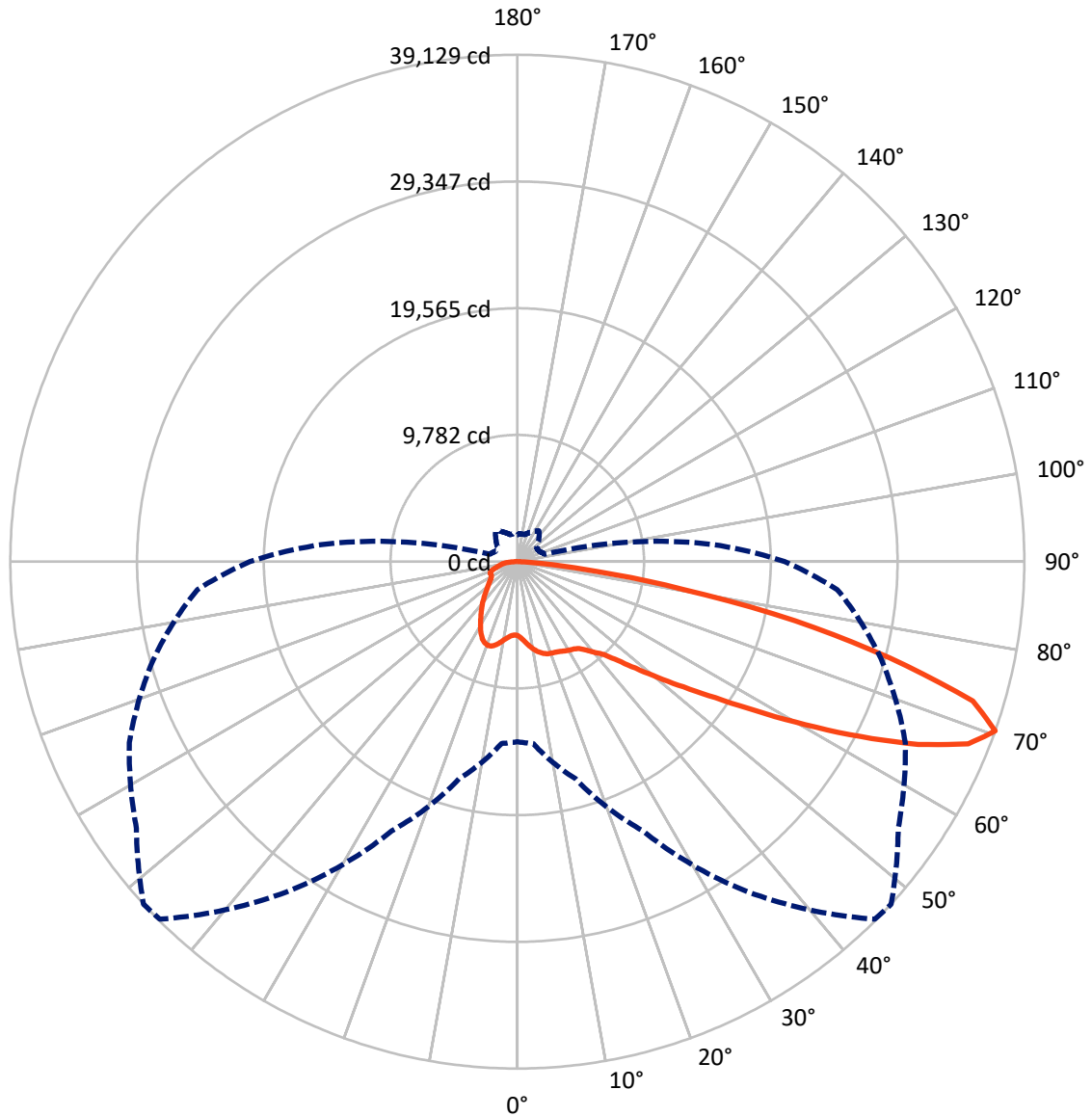
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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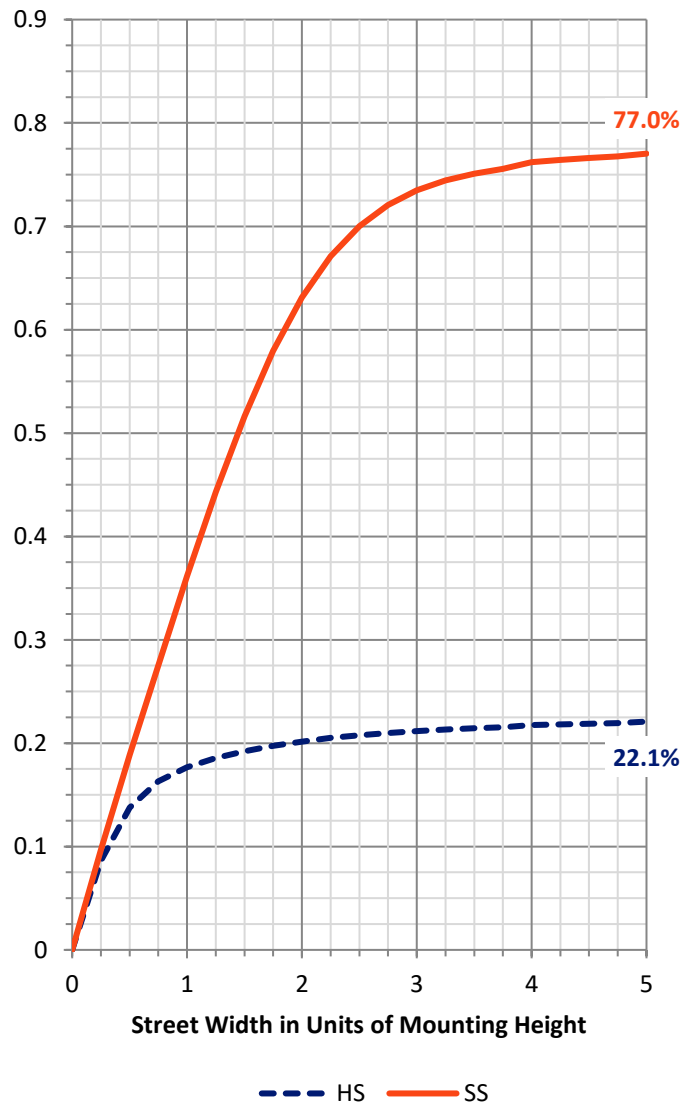
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12863.3	0.0	12863.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	43948.7	0.0	43948.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	56812.0	0.0	56812.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.9	1.0
10°-20°	1965.4	3.5
20°-30°	3268.3	5.8
30°-40°	4632.4	8.2
40°-50°	6838.4	12.0
50°-60°	11844.4	20.8
60°-70°	16730.6	29.4
70°-80°	9617.6	16.9
80°-90°	1327.0	2.3
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°	56812.0	100.0
0°-180°	56812.0	100.0



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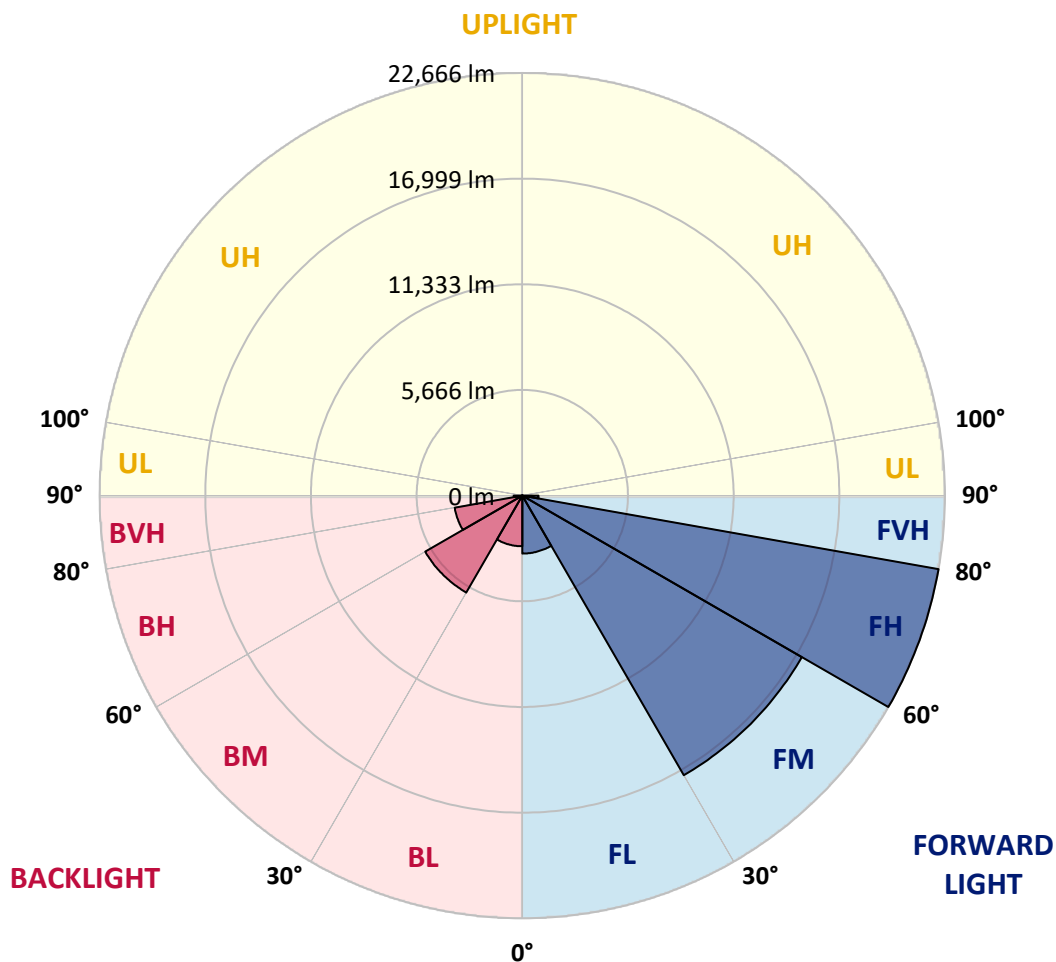
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3106.7	5.5			
FM	(30°-60°)	17309.5	30.5			
FH	(60°-80°)	22665.6	39.9			G5
FVH	(80°-90°)	866.8	1.5			G5
BL	(0°-30°)	2714.9	4.8	B4/5000		
BM	(30°-60°)	6005.7	10.6	B4/8500		
BH	(60°-80°)	3682.6	6.5	B4/5000		G4/5000
BVH	(80°-90°)	460.2	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	5703.2	5703.2	5703.2	5703.2	5703.2	5703.2	5703.2	5703.2	5703.2	5703.2	5703.2
2.5°	6071.1	6049.8	6046.8	6001.2	5976.9	5931.2	5913.0	5870.4	5818.8	5767.1	5718.4
5°	6548.4	6548.4	6527.1	6463.3	6362.9	6259.6	6214.0	6131.9	5986.0	5867.4	5767.1
7.5°	7037.8	7043.9	7001.4	6907.1	6764.2	6597.0	6554.5	6432.9	6226.1	6052.9	5903.9
10°	7460.4	7460.4	7402.7	7275.0	7095.6	6913.2	6870.6	6733.8	6502.8	6286.9	6092.4
12.5°	7782.7	7782.7	7706.7	7539.5	7344.9	7180.7	7132.1	7001.4	6785.5	6545.4	6299.1
15°	7992.4	7977.2	7892.1	7703.6	7515.1	7372.3	7338.8	7229.4	7031.8	6788.6	6511.9
17.5°	8001.6	7995.5	7913.4	7755.3	7591.1	7493.9	7472.6	7399.6	7244.6	7013.5	6721.7
20°	7825.2	7837.4	7782.7	7670.2	7591.1	7548.6	7539.5	7515.1	7405.7	7189.9	6898.0
22.5°	7636.7	7658.0	7606.3	7545.5	7539.5	7582.0	7588.1	7594.2	7524.3	7314.5	7047.0
25°	7591.1	7606.3	7554.7	7499.9	7533.4	7645.9	7670.2	7694.5	7639.8	7463.5	7223.3
27.5°	7822.2	7810.0	7709.7	7591.1	7612.4	7764.4	7797.9	7825.2	7797.9	7645.9	7442.2
30°	8475.8	8436.3	8235.7	7889.1	7779.6	7886.0	7919.5	7995.5	7995.5	7883.0	7679.3
32.5°	9570.3	9494.3	9126.4	8445.4	8065.4	8001.6	8035.0	8159.6	8223.5	8135.3	7913.4
35°	10898.8	10819.7	10293.8	9378.7	8588.3	8232.6	8223.5	8363.3	8533.6	8336.0	8047.2
37.5°	12233.4	12151.3	11519.0	10491.4	9351.4	8719.0	8664.3	8712.9	8785.9	8424.1	8232.6
40°	13568.0	13470.7	12917.4	11734.8	10284.7	9363.5	9220.6	9001.8	8971.4	8712.9	8591.3
42.5°	14890.4	14802.3	14522.6	13130.2	11403.4	9992.8	9773.9	9397.0	9512.5	9357.5	9251.0
45°	16225.1	16231.1	15933.2	14695.9	12753.2	11154.2	10859.3	10269.5	10543.1	10485.3	10546.1
47.5°	17407.7	17392.5	17286.0	16215.9	14428.3	12649.9	12269.9	11585.8	12054.0	12266.8	12732.0
50°	18553.8	18544.7	18550.7	17939.7	16374.0	14428.3	14008.8	13291.3	14346.3	15085.0	15918.0
52.5°	20195.4	20247.1	19879.3	19718.1	18739.2	16529.1	16067.0	15325.2	17055.0	18219.4	19845.8
55°	21843.2	21800.6	21511.8	21679.0	21213.9	19015.9	18532.5	17942.7	20070.8	21344.6	23788.8
57.5°	22813.0	22828.2	23123.1	23940.8	24269.2	22116.8	21679.0	21223.0	23460.5	24363.4	27297.1
60°	23685.5	23755.4	24603.6	26148.0	27038.7	25926.0	25536.9	25093.0	26570.5	26929.3	30343.3
62.5°	23959.1	24174.9	25655.5	27965.9	29738.3	30224.7	29741.4	28762.5	29531.6	29391.8	32407.5
65°	22594.1	22889.0	25543.0	28646.9	32149.1	34304.6	33997.5	32179.5	32054.9	31212.8	32745.0
67.5°	19000.7	19295.6	22703.5	27218.1	33146.3	37837.2	37530.1	34672.4	33587.1	31383.0	30191.3
70°	13902.4	14087.9	17346.9	22916.3	31142.9	39022.8	39129.2	35888.5	33039.9	29069.5	24789.0
72.5°	8010.7	8421.1	10704.2	16121.7	25442.7	36025.3	36764.0	33359.1	29580.2	24250.9	17331.7
75°	3444.4	3453.6	4949.3	8892.3	17231.3	28957.0	29671.4	27652.8	23229.5	16769.2	9254.1
77.5°	1638.6	1669.0	2176.7	3970.4	9485.1	20006.9	21934.4	19535.7	14857.0	8056.3	3496.1
80°	1064.0	1085.3	1331.6	1970.0	4651.4	11601.0	12944.8	11269.7	6554.5	2879.0	1507.9
82.5°	644.5	650.6	890.8	1203.9	2559.8	5253.3	6192.7	4891.5	2796.9	1723.7	887.7
85°	392.2	395.2	541.1	744.8	1553.5	1814.9	1863.6	1848.4	1641.7	1127.9	474.3
87.5°	188.5	194.6	279.7	352.7	611.1	562.4	532.0	617.1	775.2	608.0	203.7
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°	5703.2	5703.2	5703.2	5703.2	5703.2	5703.2	5703.2	5703.2	5703.2	5703.2	5703.2
2.5°	5697.2	5688.0	5666.8	5657.6	5651.6	5654.6	5651.6	5651.6	5654.6	5654.6	5654.6
5°	5724.5	5709.3	5675.9	5675.9	5694.1	5736.7	5776.2	5806.6	5840.0	5837.0	5837.0
7.5°	5843.1	5815.7	5776.2	5788.4	5834.0	5900.8	5970.8	6037.7	6104.5	6110.6	6107.6
10°	6016.4	5989.0	5946.4	5961.7	6034.6	6134.9	6223.1	6320.4	6393.3	6414.6	6408.5
12.5°	6214.0	6159.3	6122.8	6165.3	6280.9	6414.6	6499.7	6572.7	6624.4	6654.8	6642.6
15°	6414.6	6362.9	6320.4	6408.5	6548.4	6673.0	6715.6	6727.8	6736.9	6767.3	6761.2
17.5°	6609.2	6539.3	6524.1	6639.6	6773.4	6828.1	6803.8	6752.1	6712.6	6736.9	6733.8
20°	6782.5	6727.8	6721.7	6837.2	6888.9	6837.2	6733.8	6642.6	6572.7	6578.8	6575.8
22.5°	6946.6	6904.1	6910.2	6958.8	6876.7	6700.4	6530.2	6405.5	6329.5	6344.7	6353.8
25°	7129.1	7086.5	7101.7	7022.6	6752.1	6445.0	6198.8	6092.4	6062.0	6092.4	6113.7
27.5°	7366.2	7338.8	7329.7	7025.7	6530.2	6068.1	5788.4	5748.8	5776.2	5843.1	5876.5
30°	7621.5	7621.5	7572.9	6974.0	6226.1	5615.1	5371.9	5377.9	5472.2	5566.4	5599.9
32.5°	7867.8	7919.5	7767.5	6834.2	5834.0	5174.3	4988.8	4994.9	5077.0	5192.5	5222.9
35°	8071.5	8220.5	7934.7	6578.8	5371.9	4803.4	4663.5	4581.4	4584.5	4672.6	4697.0
37.5°	8351.2	8627.8	8032.0	6198.8	4879.4	4487.2	4329.1	4186.2	4092.0	4055.5	4055.5
40°	8837.6	9245.0	8056.3	5636.4	4414.2	4186.2	3961.3	3791.0	3608.6	3444.4	3414.0
42.5°	9661.5	10175.2	8007.6	4988.8	3994.7	3854.9	3636.0	3426.2	3173.9	2942.8	2924.6
45°	11120.7	11385.2	7876.9	4317.0	3620.8	3535.6	3322.8	3094.8	2827.3	2620.6	2605.4
47.5°	13458.6	13084.6	7703.6	3721.1	3280.3	3256.0	3091.8	2827.3	2559.8	2416.9	2401.7
50°	16872.6	15759.9	7679.3	3289.4	3006.7	3018.8	2885.1	2641.9	2407.8	2289.2	2271.0
52.5°	20982.8	18991.6	7840.4	2985.4	2766.5	2812.1	2745.2	2520.2	2313.5	2213.2	2195.0
55°	24971.4	21897.9	7937.7	2748.3	2541.5	2626.7	2635.8	2447.3	2258.8	2158.5	2146.3
57.5°	28209.2	24086.8	7506.0	2532.4	2347.0	2477.7	2544.6	2404.7	2231.4	2155.4	2143.3
60°	30461.9	25120.4	6277.8	2340.9	2204.1	2359.1	2511.1	2407.8	2298.3	2307.4	2313.5
62.5°	31179.3	24661.4	4709.1	2198.0	2106.8	2319.6	2565.9	2532.4	2419.9	2489.8	2502.0
65°	29990.7	22764.3	3414.0	2085.5	2021.7	2347.0	2730.0	2623.6	2377.4	2429.0	2429.0
67.5°	26011.2	19611.7	2657.1	1982.1	1924.4	2398.6	2894.2	2614.5	2277.0	2337.8	2283.1
70°	20633.2	15170.1	2213.2	1866.6	1821.0	2322.6	2909.4	2520.2	2158.5	2170.6	2067.3
72.5°	13692.6	9974.6	1903.1	1757.2	1662.9	2088.6	2784.7	2398.6	2043.0	1973.0	1869.7
75°	6709.5	4973.6	1659.9	1620.4	1456.2	1818.0	2614.5	2283.1	1918.3	1808.9	1751.1
77.5°	2599.3	2115.9	1416.7	1447.1	1267.7	1602.1	2389.5	2119.0	1754.1	1605.2	1559.6
80°	1261.6	1200.8	1161.3	1206.9	1042.8	1365.0	2182.8	1976.1	1602.1	1438.0	1371.1
82.5°	784.3	741.8	890.8	939.4	802.6	1246.4	2070.3	1854.5	1410.6	1191.7	1137.0
85°	398.3	425.6	595.9	641.5	574.6	991.1	1705.5	1392.4	1018.4	845.1	851.2
87.5°	152.0	203.7	313.1	337.5	307.1	522.9	939.4	811.7	653.6	443.9	410.4
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)