

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: P651597

Luminaire Tested: **GALN-SA8D-840-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P651597
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-SA8D-840-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52573.4 lumens
Efficiency: N/A
Efficacy: 106.6 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

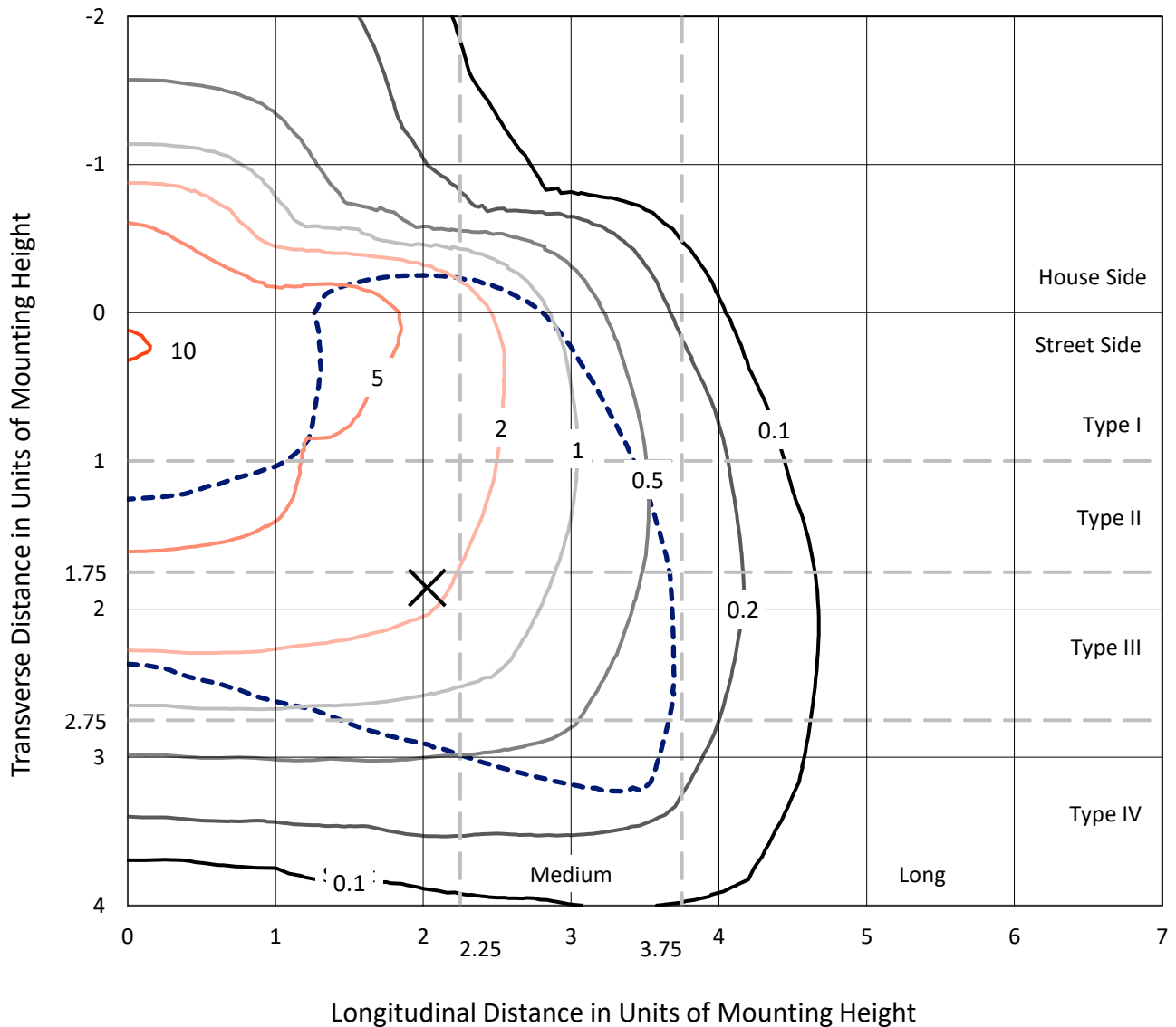
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

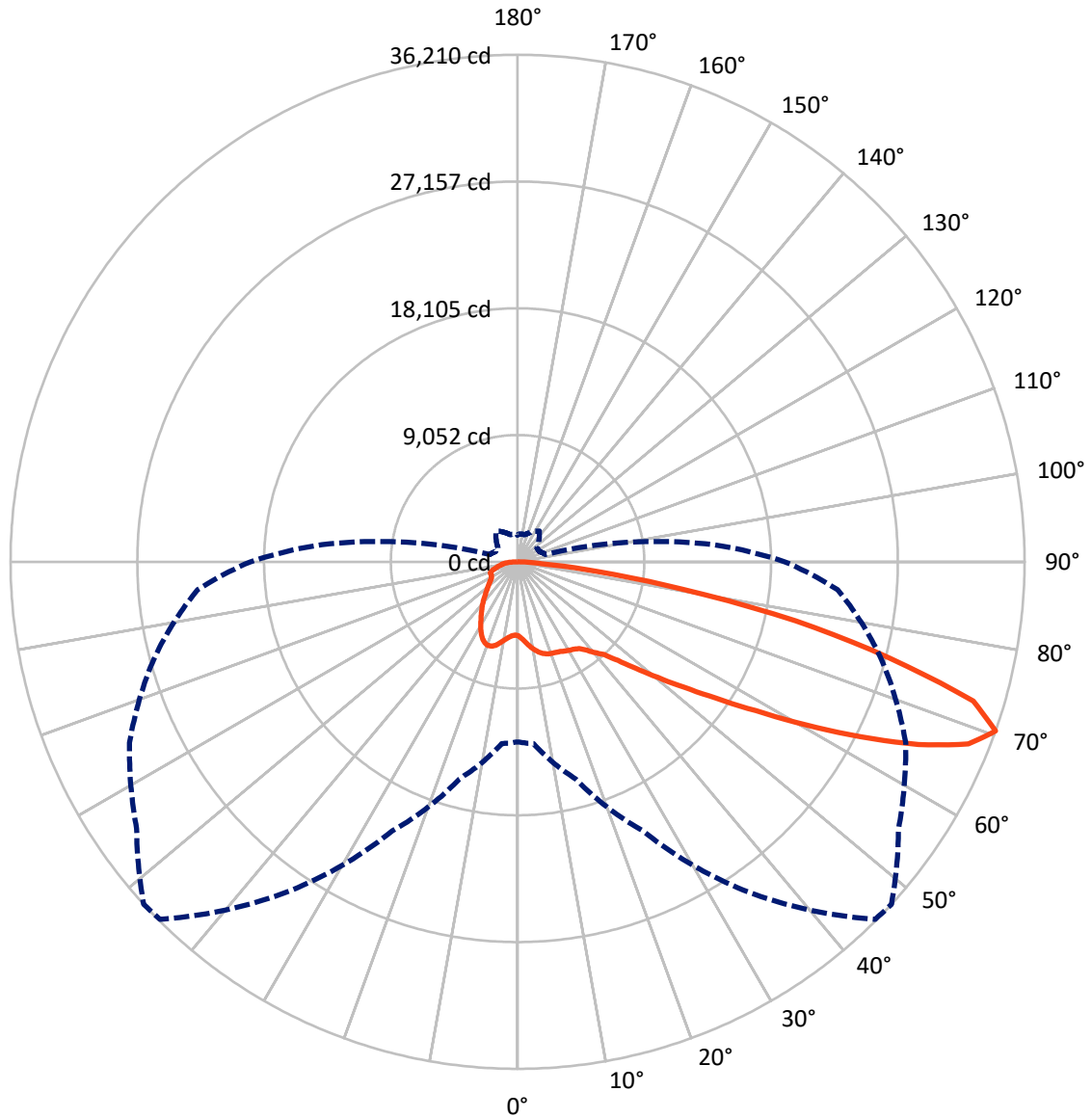
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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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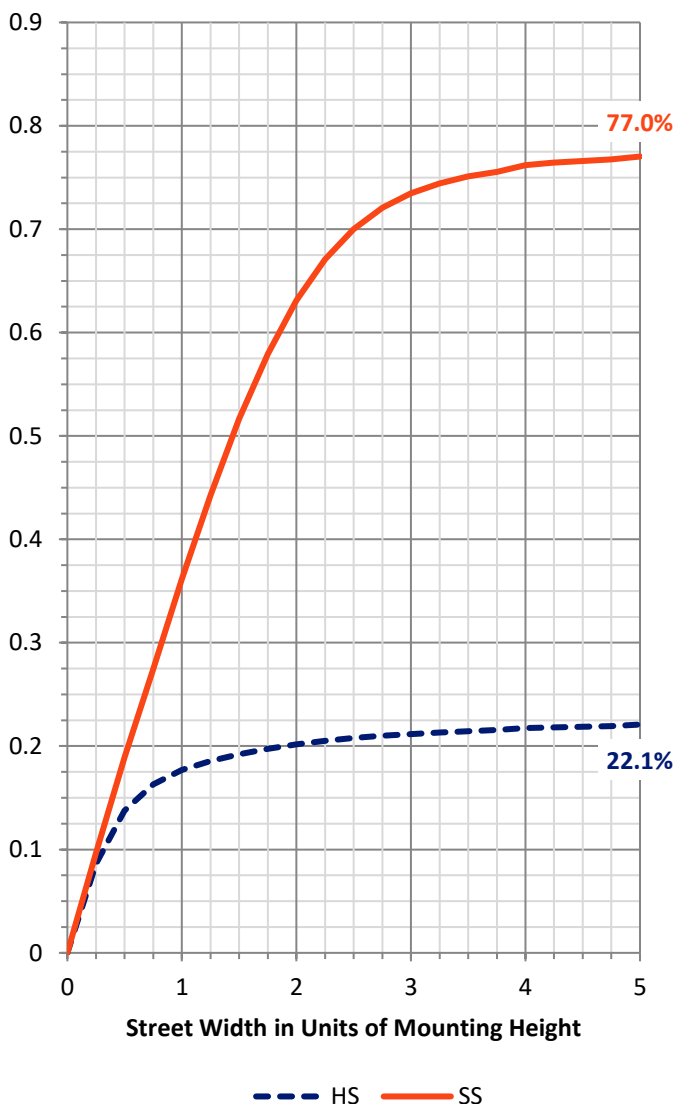
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11903.6	0.0	11903.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	40669.8	0.0	40669.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	52573.4	0.0	52573.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.0	1.0
10°-20°	1818.7	3.5
20°-30°	3024.5	5.8
30°-40°	4286.8	8.2
40°-50°	6328.2	12.0
50°-60°	10960.7	20.8
60°-70°	15482.4	29.4
70°-80°	8900.1	16.9
80°-90°	1228.0	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°	52573.4	100.0
0°-180°	52573.4	100.0

Coefficient of Utilization

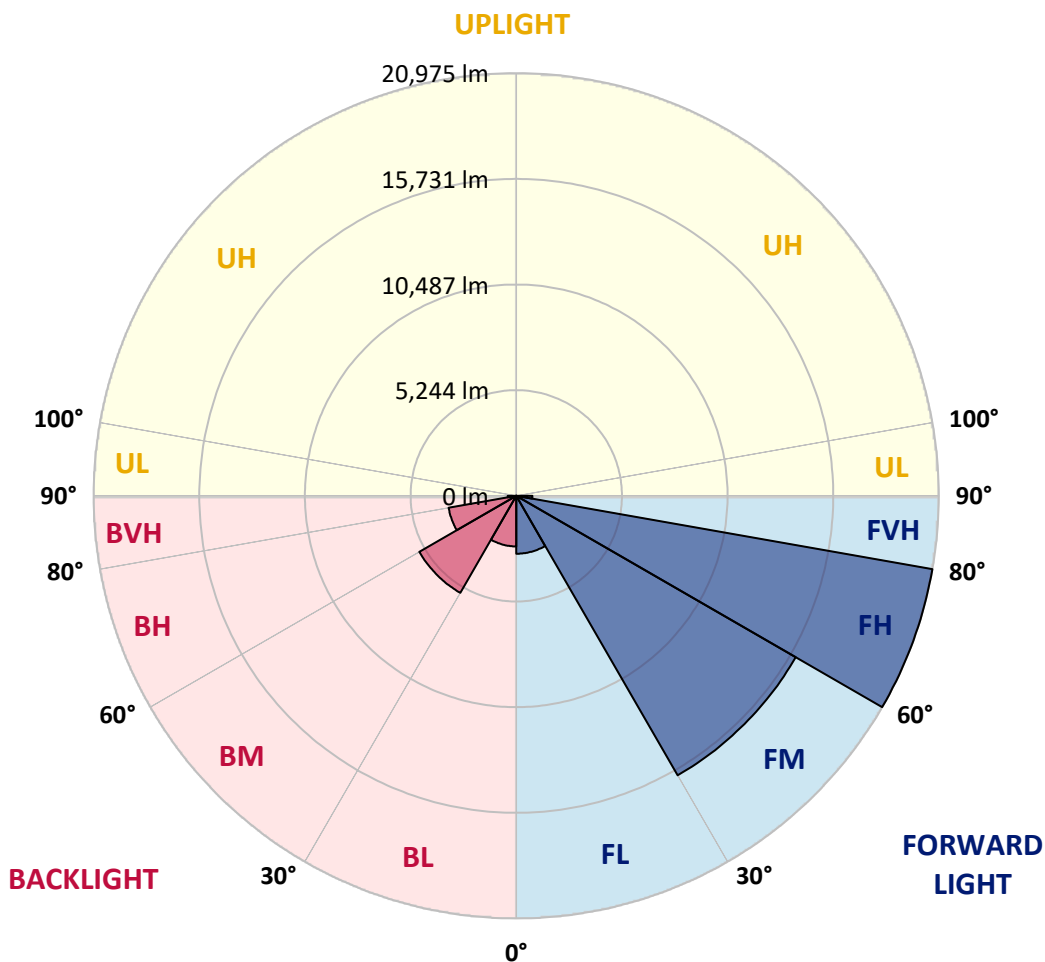


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2874.9	5.5			
FM (30°-60°)	16018.1	30.5			
FH (60°-80°)	20974.6	39.9			G5
FVH (80°-90°)	802.2	1.5			G5
BL (0°-30°)	2512.3	4.8	B4/5000		
BM (30°-60°)	5557.6	10.6	B4/8500		
BH (60°-80°)	3407.9	6.5	B4/5000		G4/5000
BVH (80°-90°)	425.8	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°	5277.8	5277.8	5277.8	5277.8	5277.8	5277.8	5277.8	5277.8	5277.8	5277.8	5277.8
2.5°	5618.1	5598.5	5595.7	5553.5	5530.9	5488.7	5471.9	5432.4	5384.7	5336.8	5291.8
5°	6059.8	6059.8	6040.1	5981.0	5888.3	5792.6	5750.3	5674.4	5539.4	5429.7	5336.8
7.5°	6512.8	6518.4	6479.0	6391.8	6259.6	6104.8	6065.5	5952.9	5761.6	5601.2	5463.4
10°	6903.9	6903.9	6850.4	6732.2	6566.2	6397.4	6358.0	6231.5	6017.6	5817.9	5637.8
12.5°	7202.1	7202.1	7131.7	6976.9	6796.9	6645.0	6600.0	6479.0	6279.2	6057.1	5829.1
15°	7396.2	7382.0	7303.3	7128.9	6954.5	6822.3	6791.3	6690.0	6507.2	6282.1	6026.1
17.5°	7404.6	7398.9	7323.0	7176.7	7024.8	6934.8	6915.0	6847.6	6704.1	6490.2	6220.2
20°	7241.4	7252.7	7202.1	7098.0	7024.8	6985.4	6976.9	6954.5	6853.2	6653.4	6383.4
22.5°	7067.0	7086.7	7038.8	6982.6	6976.9	7016.4	7022.0	7027.6	6962.9	6768.8	6521.2
25°	7024.8	7038.8	6991.1	6940.4	6971.3	7075.4	7098.0	7120.4	7069.8	6906.6	6684.4
27.5°	7238.6	7227.4	7134.5	7024.8	7044.5	7185.2	7216.1	7241.4	7216.1	7075.4	6886.9
30°	7843.5	7806.9	7621.2	7300.5	7199.2	7297.7	7328.6	7398.9	7398.9	7294.8	7106.4
32.5°	8856.2	8785.9	8445.5	7815.3	7463.7	7404.6	7435.5	7550.9	7610.0	7528.4	7323.0
35°	10085.7	10012.5	9525.8	8679.0	7947.5	7618.4	7610.0	7739.4	7896.9	7714.1	7446.8
37.5°	11320.7	11244.8	10659.6	9708.7	8653.7	8068.6	8017.9	8062.9	8130.5	7795.6	7618.4
40°	12555.7	12465.7	11953.7	10859.3	9517.3	8664.9	8532.7	8330.2	8302.0	8062.9	7950.4
42.5°	13779.5	13698.0	13439.1	12150.6	10552.7	9247.3	9044.7	8695.9	8802.8	8659.4	8560.9
45°	15014.5	15020.2	14744.5	13599.5	11801.8	10322.0	10049.1	9503.3	9756.5	9703.0	9759.3
47.5°	16108.9	16094.9	15996.4	15006.1	13351.9	11706.1	11354.4	10721.5	11154.7	11351.6	11782.1
50°	17169.5	17161.1	17166.7	16601.3	15152.4	13351.9	12963.7	12299.7	13275.9	13959.6	14730.4
52.5°	18688.7	18736.6	18396.1	18247.0	17341.2	15295.9	14868.3	14181.8	15782.5	16860.0	18365.2
55°	20213.5	20174.2	19906.9	20061.6	19631.1	17597.2	17149.8	16604.0	18573.4	19752.1	22014.0
57.5°	21111.0	21125.0	21397.9	22154.7	22458.6	20466.7	20061.6	19639.6	21710.2	22545.8	25260.5
60°	21918.4	21983.1	22768.0	24197.2	25021.4	23991.8	23631.7	23220.9	24588.2	24920.2	28079.5
62.5°	22171.5	22371.4	23741.4	25879.5	27519.6	27969.8	27522.5	26616.6	27328.4	27198.9	29989.7
65°	20908.4	21181.3	23637.3	26509.7	29750.6	31745.2	31461.1	29778.7	29663.4	28884.1	30302.0
67.5°	17583.1	17855.9	21009.7	25187.4	30673.4	35014.3	34730.1	32085.6	31081.3	29041.7	27938.9
70°	12865.2	13036.8	16052.7	21206.6	28819.4	36111.4	36209.9	33210.9	30574.9	26900.7	22939.6
72.5°	7413.0	7792.8	9905.6	14918.9	23544.5	33337.6	34021.1	30870.3	27373.4	22441.7	16038.6
75°	3187.5	3195.9	4580.0	8228.8	15945.8	26796.6	27457.7	25589.7	21496.4	15518.1	8563.7
77.5°	1516.4	1544.5	2014.3	3674.2	8777.5	18514.3	20298.0	18078.2	13748.6	7455.2	3235.3
80°	984.6	1004.3	1232.2	1823.0	4304.3	10735.5	11979.0	10428.9	6065.5	2664.2	1395.4
82.5°	596.4	602.1	824.3	1114.1	2368.8	4861.4	5730.7	4526.6	2588.3	1595.1	821.5
85°	362.9	365.8	500.7	689.3	1437.6	1679.6	1724.6	1710.5	1519.2	1043.8	438.8
87.5°	174.4	180.1	258.9	326.3	565.5	520.5	492.3	571.1	717.4	562.6	188.5
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°	5277.8	5277.8	5277.8	5277.8	5277.8	5277.8	5277.8	5277.8	5277.8	5277.8	5277.8
2.5°	5272.1	5263.7	5244.0	5235.6	5229.9	5232.7	5229.9	5229.9	5232.7	5232.7	5232.7
5°	5297.5	5283.3	5252.4	5252.4	5269.3	5308.6	5345.2	5373.4	5404.4	5401.5	5401.5
7.5°	5407.1	5381.8	5345.2	5356.5	5398.7	5460.6	5525.3	5587.2	5649.1	5654.7	5651.9
10°	5567.5	5542.2	5502.8	5516.9	5584.4	5677.3	5758.8	5848.8	5916.4	5936.0	5930.4
12.5°	5750.3	5699.7	5666.0	5705.3	5812.2	5936.0	6014.8	6082.4	6130.1	6158.3	6147.0
15°	5936.0	5888.3	5848.8	5930.4	6059.8	6175.2	6214.6	6225.8	6234.2	6262.4	6256.8
17.5°	6116.1	6051.4	6037.4	6144.3	6268.1	6318.7	6296.1	6248.3	6211.8	6234.2	6231.5
20°	6276.5	6225.8	6220.2	6327.1	6374.9	6327.1	6231.5	6147.0	6082.4	6088.0	6085.1
22.5°	6428.4	6389.0	6394.6	6439.6	6363.7	6200.5	6042.9	5927.6	5857.3	5871.4	5879.8
25°	6597.1	6557.8	6571.8	6498.7	6248.3	5964.2	5736.3	5637.8	5609.7	5637.8	5657.6
27.5°	6816.6	6791.3	6782.8	6501.5	6042.9	5615.4	5356.5	5319.9	5345.2	5407.1	5438.1
30°	7053.0	7053.0	7007.9	6453.7	5761.6	5196.1	4971.1	4976.7	5063.9	5151.1	5182.1
32.5°	7280.8	7328.6	7187.9	6324.3	5398.7	4788.2	4616.6	4622.2	4698.2	4805.1	4833.2
35°	7469.3	7607.2	7342.7	6088.0	4971.1	4445.0	4315.6	4239.6	4242.4	4324.0	4346.5
37.5°	7728.1	7984.1	7432.8	5736.3	4515.3	4152.4	4006.1	3873.9	3786.7	3753.0	3753.0
40°	8178.2	8555.2	7455.2	5215.9	4084.9	3873.9	3665.8	3508.1	3339.4	3187.5	3159.3
42.5°	8940.7	9416.1	7410.2	4616.6	3696.7	3567.3	3364.7	3170.6	2937.1	2723.2	2706.4
45°	10291.1	10535.8	7289.3	3994.9	3350.6	3271.8	3074.9	2863.9	2616.4	2425.0	2411.0
47.5°	12454.5	12108.4	7128.9	3443.5	3035.5	3013.1	2861.1	2616.4	2368.8	2236.6	2222.5
50°	15613.8	14584.1	7106.4	3044.0	2782.4	2793.6	2669.8	2444.8	2228.1	2118.4	2101.5
52.5°	19417.3	17574.6	7255.5	2762.7	2560.1	2602.3	2540.4	2332.3	2140.9	2048.1	2031.2
55°	23108.4	20264.1	7345.5	2543.2	2351.9	2430.7	2439.2	2264.7	2090.3	1997.5	1986.2
57.5°	26104.6	22289.7	6946.0	2343.4	2171.9	2292.8	2354.7	2225.3	2065.0	1994.6	1983.4
60°	28189.2	23246.2	5809.5	2166.2	2039.7	2183.2	2323.8	2228.1	2126.9	2135.3	2140.9
62.5°	28853.1	22821.5	4357.8	2034.0	1949.6	2146.6	2374.4	2343.4	2239.4	2304.1	2315.4
65°	27753.2	21066.0	3159.3	1929.9	1870.8	2171.9	2526.4	2427.9	2200.0	2247.8	2247.8
67.5°	24070.5	18148.5	2458.8	1834.3	1780.8	2219.7	2678.2	2419.5	2107.1	2163.4	2112.8
70°	19093.8	14038.3	2048.1	1727.3	1685.2	2149.3	2692.3	2332.3	1997.5	2008.7	1913.0
72.5°	12671.1	9230.4	1761.1	1626.1	1538.9	1932.7	2577.0	2219.7	1890.6	1825.8	1730.2
75°	6208.9	4602.5	1536.1	1499.5	1347.5	1682.3	2419.5	2112.8	1775.2	1673.9	1620.4
77.5°	2405.3	1958.0	1311.0	1339.1	1173.1	1482.6	2211.2	1960.9	1623.3	1485.5	1443.2
80°	1167.5	1111.2	1074.7	1116.8	965.0	1263.2	2019.9	1828.7	1482.6	1330.7	1268.8
82.5°	725.9	686.4	824.3	869.3	742.7	1153.4	1915.9	1716.1	1305.4	1102.8	1052.2
85°	368.5	393.8	551.4	593.6	531.7	917.1	1578.2	1288.5	942.4	782.1	787.7
87.5°	140.7	188.5	289.8	312.3	284.2	483.9	869.3	751.2	604.8	410.7	379.8
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)