

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: P522858

Luminaire Tested: **GALN-SA7D-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522858
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-SA7D-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 49107 lumens
Efficiency: N/A
Efficacy: 113.4 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

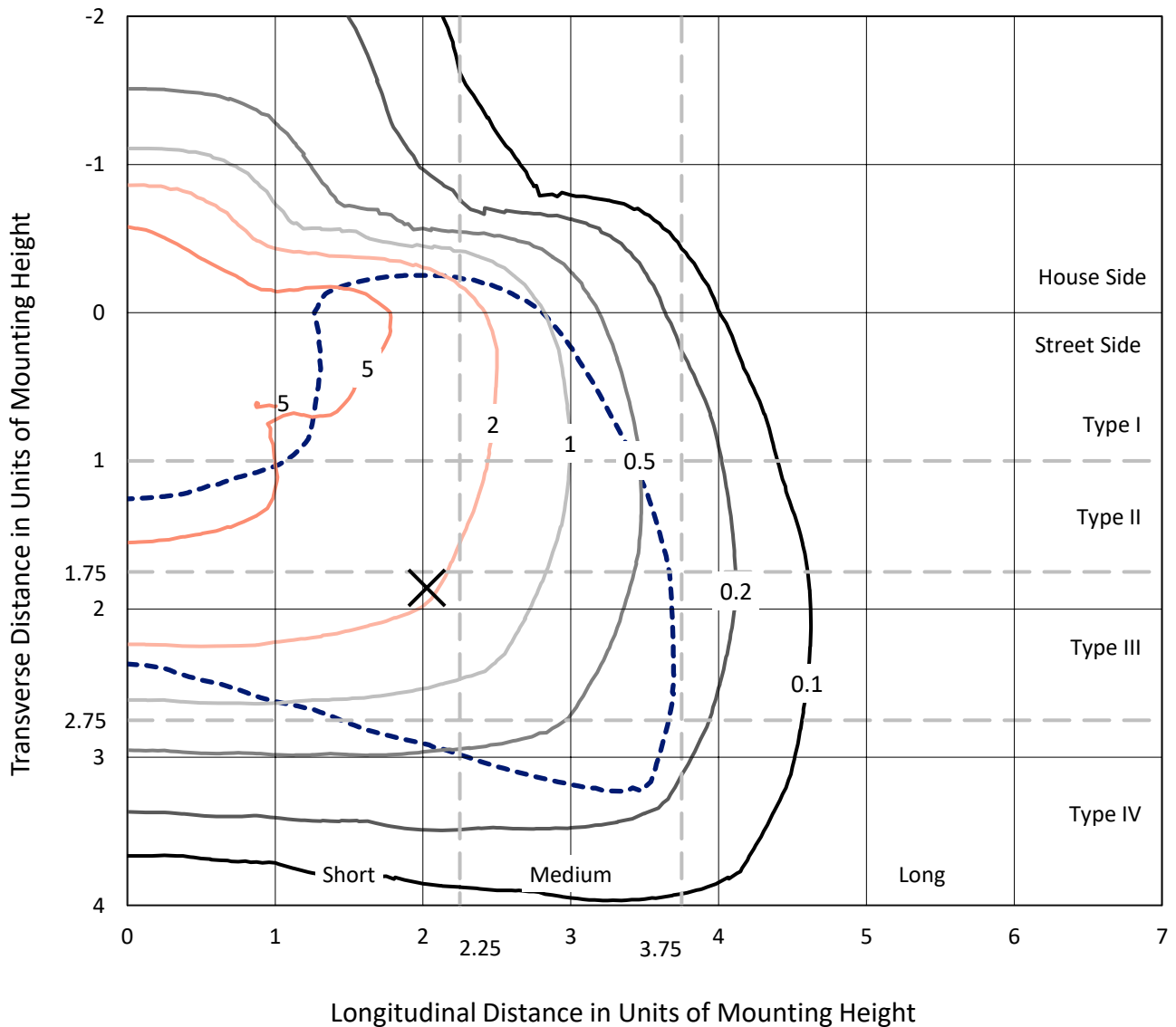
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

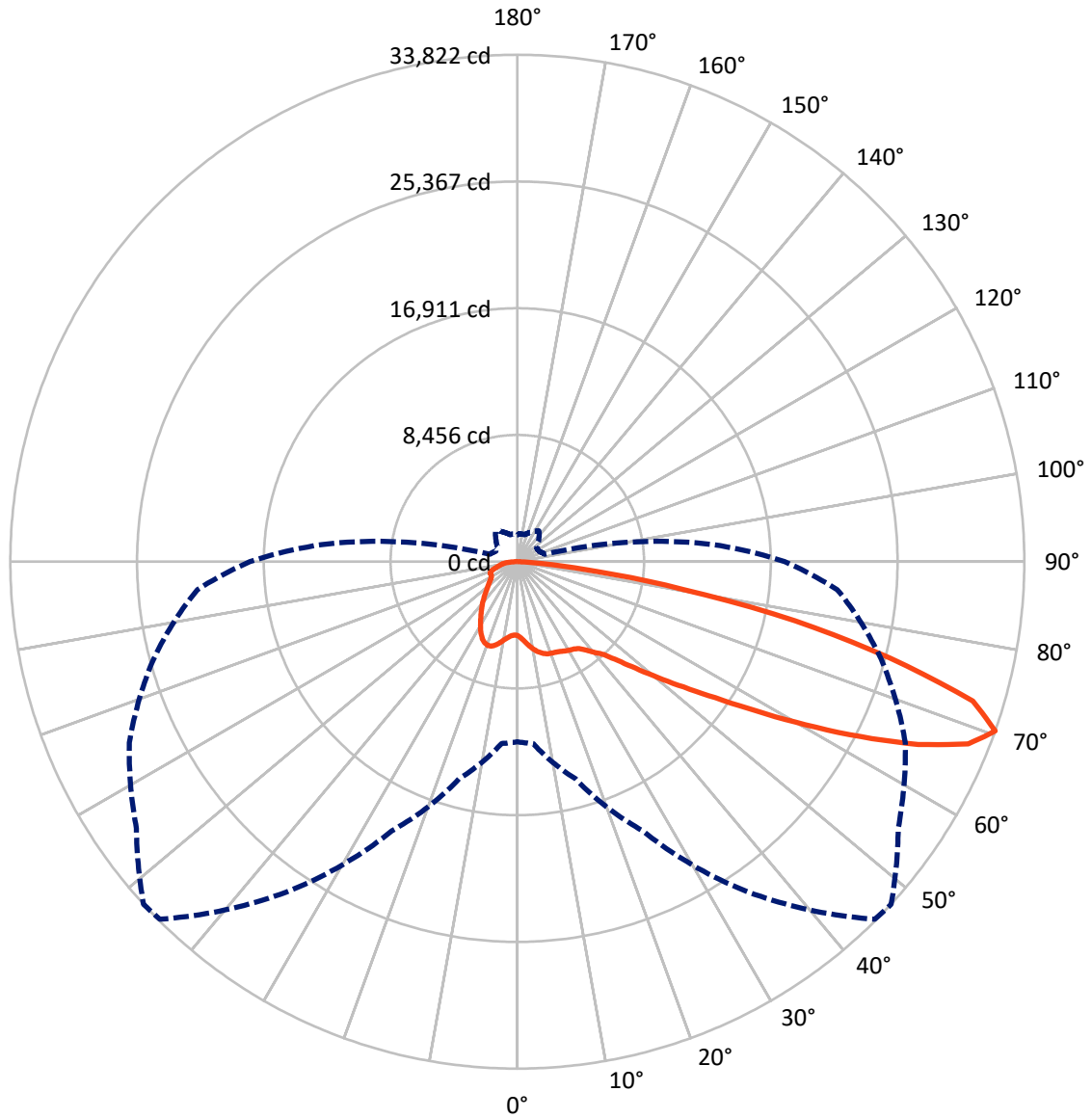
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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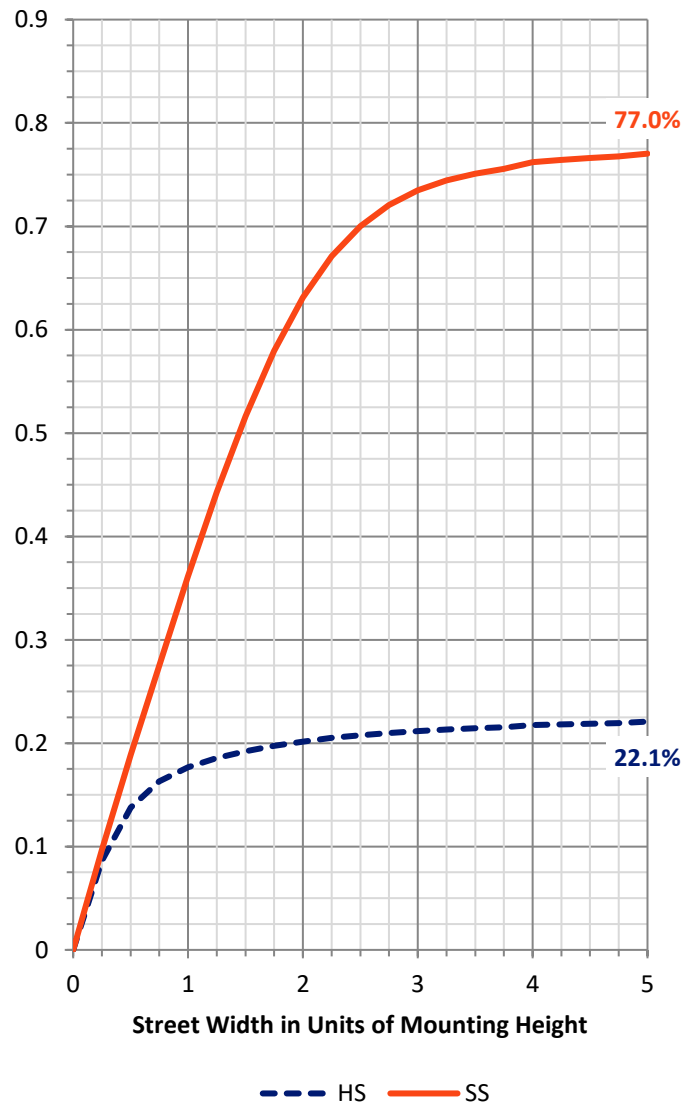
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11118.8	0.0	11118.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	37988.2	0.0	37988.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	49107.0	0.0	49107.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.2	1.0
10°-20°	1698.8	3.5
20°-30°	2825.1	5.8
30°-40°	4004.1	8.2
40°-50°	5911.0	12.0
50°-60°	10238.0	20.8
60°-70°	14461.5	29.4
70°-80°	8313.3	16.9
80°-90°	1147.0	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°	49107.0	100.0
0°-180°	49107.0	100.0



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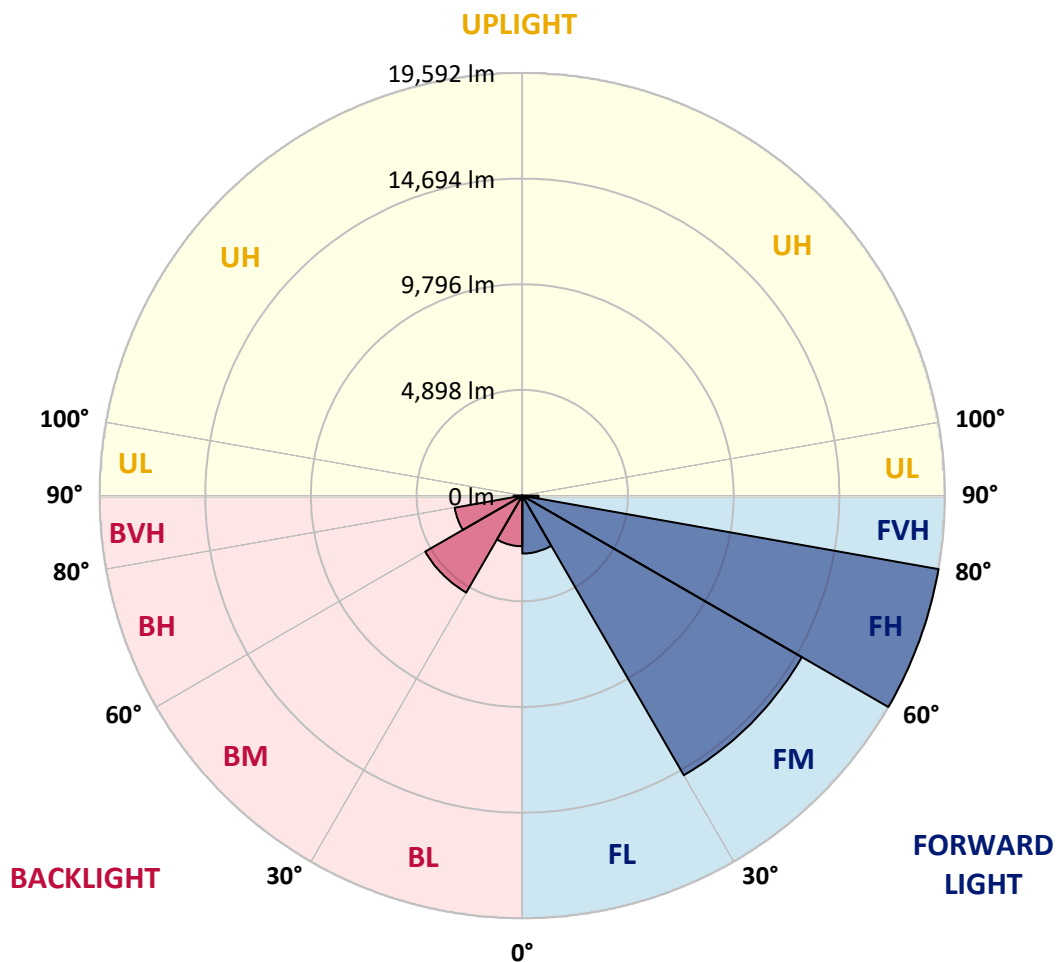
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2685.3	5.5			
FM	(30°-60°)	14962.0	30.5			
FH	(60°-80°)	19591.6	39.9			G5
FVH	(80°-90°)	749.3	1.5			G4/750
BL	(0°-30°)	2346.7	4.8	B3/2500		
BM	(30°-60°)	5191.2	10.6	B4/8500		
BH	(60°-80°)	3183.2	6.5	B4/5000		G4/5000
BVH	(80°-90°)	397.8	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°	4929.8	4929.8	4929.8	4929.8	4929.8	4929.8	4929.8	4929.8	4929.8	4929.8	4929.8
2.5°	5247.7	5229.3	5226.7	5187.3	5166.3	5126.8	5111.1	5074.3	5029.6	4984.9	4942.9
5°	5660.3	5660.3	5641.9	5586.7	5500.0	5410.6	5371.2	5300.3	5174.1	5071.7	4984.9
7.5°	6083.4	6088.6	6051.8	5970.4	5846.9	5702.3	5665.5	5560.4	5381.7	5231.9	5103.2
10°	6448.6	6448.6	6398.7	6288.3	6133.3	5975.6	5938.8	5820.6	5620.9	5434.3	5266.1
12.5°	6727.2	6727.2	6661.5	6516.9	6348.8	6206.9	6164.8	6051.8	5865.2	5657.7	5444.8
15°	6908.5	6895.3	6821.8	6658.8	6495.9	6372.4	6343.5	6248.9	6078.1	5867.9	5628.7
17.5°	6916.4	6911.1	6840.2	6703.5	6561.6	6477.5	6459.1	6396.1	6262.0	6062.3	5810.1
20°	6764.0	6774.5	6727.2	6629.9	6561.6	6524.8	6516.9	6495.9	6401.3	6214.7	5962.5
22.5°	6601.0	6619.4	6574.8	6522.2	6516.9	6553.7	6559.0	6564.2	6503.8	6322.5	6091.2
25°	6561.6	6574.8	6530.1	6482.8	6511.7	6608.9	6629.9	6651.0	6603.7	6451.2	6243.7
27.5°	6761.3	6750.8	6664.1	6561.6	6580.0	6711.4	6740.3	6764.0	6740.3	6608.9	6432.9
30°	7326.3	7292.1	7118.7	6819.1	6724.5	6816.5	6845.4	6911.1	6911.1	6813.9	6637.8
32.5°	8272.3	8206.6	7888.7	7300.0	6971.6	6916.4	6945.3	7053.0	7108.2	7032.0	6840.2
35°	9420.7	9352.3	8897.7	8106.8	7423.5	7116.1	7108.2	7229.1	7376.2	7205.4	6955.8
37.5°	10574.3	10503.3	9956.7	9068.5	8083.1	7536.5	7489.2	7531.3	7594.3	7281.6	7116.1
40°	11727.9	11643.8	11165.5	10143.3	8889.8	8093.6	7970.1	7780.9	7754.6	7531.3	7426.2
42.5°	12871.0	12794.8	12553.0	11349.5	9856.9	8637.6	8448.4	8122.5	8222.4	8088.4	7996.4
45°	14024.6	14029.8	13772.3	12702.8	11023.6	9641.4	9386.5	8876.7	9113.2	9063.3	9115.8
47.5°	15046.8	15033.6	14941.7	14016.7	12471.5	10934.3	10605.8	10014.5	10419.2	10603.2	11005.2
50°	16037.5	16029.6	16034.8	15506.6	14153.3	12471.5	12108.9	11488.7	12400.6	13039.1	13759.2
52.5°	17456.5	17501.1	17183.2	17043.9	16197.8	14287.3	13887.9	13246.7	14742.0	15748.4	17154.3
55°	18880.7	18844.0	18594.3	18738.8	18336.8	16436.9	16019.1	15509.3	17348.7	18449.8	20562.5
57.5°	19719.0	19732.1	19987.0	20693.9	20977.7	19117.2	18738.8	18344.7	20278.7	21059.2	23595.0
60°	20473.2	20533.6	21266.8	22601.7	23371.6	22409.9	22073.5	21689.9	22967.0	23277.0	26228.1
62.5°	20709.7	20896.3	22176.0	24173.1	25705.1	26125.6	25707.8	24861.6	25526.4	25405.6	28012.3
65°	19529.8	19784.7	22078.8	24761.8	27789.0	29652.1	29386.7	27815.3	27707.5	26979.6	28304.0
67.5°	16423.7	16678.6	19624.4	23526.7	28650.9	32705.6	32440.2	29970.1	29031.9	27126.8	26096.7
70°	12016.9	12177.2	14994.2	19808.4	26919.2	33730.4	33822.4	31021.2	28558.9	25127.0	21427.1
72.5°	6924.3	7279.0	9252.5	13935.2	21992.1	31139.4	31778.0	28834.8	25568.5	20962.0	14981.1
75°	2977.3	2985.2	4278.1	7686.3	14894.4	25029.8	25647.3	23902.5	20079.0	14494.9	7999.0
77.5°	1416.4	1442.7	1881.5	3431.9	8198.7	17293.5	18959.6	16886.2	12842.1	6963.7	3022.0
80°	919.7	938.1	1151.0	1702.8	4020.5	10027.7	11189.2	9741.3	5665.5	2488.5	1303.4
82.5°	557.1	562.3	769.9	1040.6	2212.6	4540.8	5352.8	4228.1	2417.6	1490.0	767.3
85°	339.0	341.6	467.7	643.8	1342.8	1568.8	1610.8	1597.7	1419.0	974.9	409.9
87.5°	162.9	168.2	241.8	304.8	528.2	486.1	459.9	533.4	670.1	525.6	176.1
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°	4929.8	4929.8	4929.8	4929.8	4929.8	4929.8	4929.8	4929.8	4929.8	4929.8	4929.8
2.5°	4924.5	4916.6	4898.2	4890.3	4885.1	4887.7	4885.1	4885.1	4887.7	4887.7	4887.7
5°	4948.1	4935.0	4906.1	4906.1	4921.9	4958.7	4992.8	5019.1	5048.0	5045.4	5045.4
7.5°	5050.6	5027.0	4992.8	5003.3	5042.7	5100.6	5161.0	5218.8	5276.6	5281.9	5279.2
10°	5200.4	5176.8	5140.0	5153.1	5216.2	5302.9	5379.1	5463.2	5526.3	5544.7	5539.4
12.5°	5371.2	5323.9	5292.4	5329.2	5429.0	5544.7	5618.2	5681.3	5726.0	5752.3	5741.7
15°	5544.7	5500.0	5463.2	5539.4	5660.3	5768.0	5804.8	5815.3	5823.2	5849.5	5844.2
17.5°	5712.8	5652.4	5639.3	5739.1	5854.7	5902.0	5881.0	5836.3	5802.2	5823.2	5820.6
20°	5862.6	5815.3	5810.1	5909.9	5954.6	5909.9	5820.6	5741.7	5681.3	5686.6	5683.9
22.5°	6004.5	5967.7	5973.0	6015.0	5944.1	5791.7	5644.5	5536.8	5471.1	5484.2	5492.1
25°	6162.2	6125.4	6138.5	6070.2	5836.3	5570.9	5358.1	5266.1	5239.8	5266.1	5284.5
27.5°	6367.2	6343.5	6335.6	6072.8	5644.5	5245.1	5003.3	4969.2	4992.8	5050.6	5079.5
30°	6587.9	6587.9	6545.8	6028.2	5381.7	4853.5	4643.3	4648.6	4730.0	4811.5	4840.4
32.5°	6800.7	6845.4	6714.0	5907.3	5042.7	4472.5	4312.2	4317.5	4388.4	4488.3	4514.6
35°	6976.8	7105.6	6858.6	5686.6	4643.3	4151.9	4031.0	3960.1	3962.7	4038.9	4060.0
37.5°	7218.6	7457.7	6942.6	5358.1	4217.6	3878.6	3742.0	3618.5	3537.0	3505.5	3505.5
40°	7639.0	7991.1	6963.7	4871.9	3815.6	3618.5	3424.0	3276.9	3119.2	2977.3	2951.0
42.5°	8351.1	8795.2	6921.6	4312.2	3452.9	3332.0	3142.8	2961.5	2743.4	2543.7	2527.9
45°	9612.5	9841.1	6808.6	3731.5	3129.7	3056.1	2872.2	2675.1	2443.9	2265.2	2252.0
47.5°	11633.3	11310.0	6658.8	3216.4	2835.4	2814.4	2672.5	2443.9	2212.6	2089.1	2076.0
50°	14584.3	13622.5	6637.8	2843.3	2598.9	2609.4	2493.8	2283.6	2081.2	1978.7	1963.0
52.5°	18137.1	16415.9	6777.1	2580.5	2391.3	2430.7	2372.9	2178.4	1999.8	1913.0	1897.3
55°	21584.7	18928.0	6861.2	2375.5	2196.8	2270.4	2278.3	2115.4	1952.5	1865.7	1855.2
57.5°	24383.4	20820.1	6488.0	2189.0	2028.7	2141.7	2199.5	2078.6	1928.8	1863.1	1852.6
60°	26330.6	21713.5	5426.4	2023.4	1905.2	2039.2	2170.6	2081.2	1986.6	1994.5	1999.8
62.5°	26950.7	21316.7	4070.5	1899.9	1821.1	2005.0	2217.9	2189.0	2091.7	2152.2	2162.7
65°	25923.2	19677.0	2951.0	1802.7	1747.5	2028.7	2359.8	2267.8	2054.9	2099.6	2099.6
67.5°	22483.5	16951.9	2296.7	1713.3	1663.4	2073.3	2501.7	2259.9	1968.2	2020.8	1973.5
70°	17834.9	13112.7	1913.0	1613.5	1574.1	2007.6	2514.8	2178.4	1865.7	1876.2	1786.9
72.5°	11835.6	8621.8	1645.0	1518.9	1437.4	1805.3	2407.1	2073.3	1765.9	1705.4	1616.1
75°	5799.6	4299.1	1434.8	1400.6	1258.7	1571.4	2259.9	1973.5	1658.1	1563.5	1513.6
77.5°	2246.8	1828.9	1224.6	1250.8	1095.8	1384.9	2065.5	1831.6	1516.2	1387.5	1348.1
80°	1090.5	1038.0	1003.8	1043.2	901.3	1179.9	1886.8	1708.1	1384.9	1242.9	1185.1
82.5°	678.0	641.2	769.9	812.0	693.7	1077.4	1789.5	1603.0	1219.3	1030.1	982.8
85°	344.2	367.9	515.0	554.5	496.7	856.7	1474.2	1203.5	880.3	730.5	735.8
87.5°	131.4	176.1	270.7	291.7	265.4	452.0	812.0	701.6	565.0	383.7	354.8
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)