

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: P522927

Luminaire Tested: **GALN-SA9C-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522927
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-SA9C-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 50683 lumens
Efficiency: N/A
Efficacy: 105.4 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): 481
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



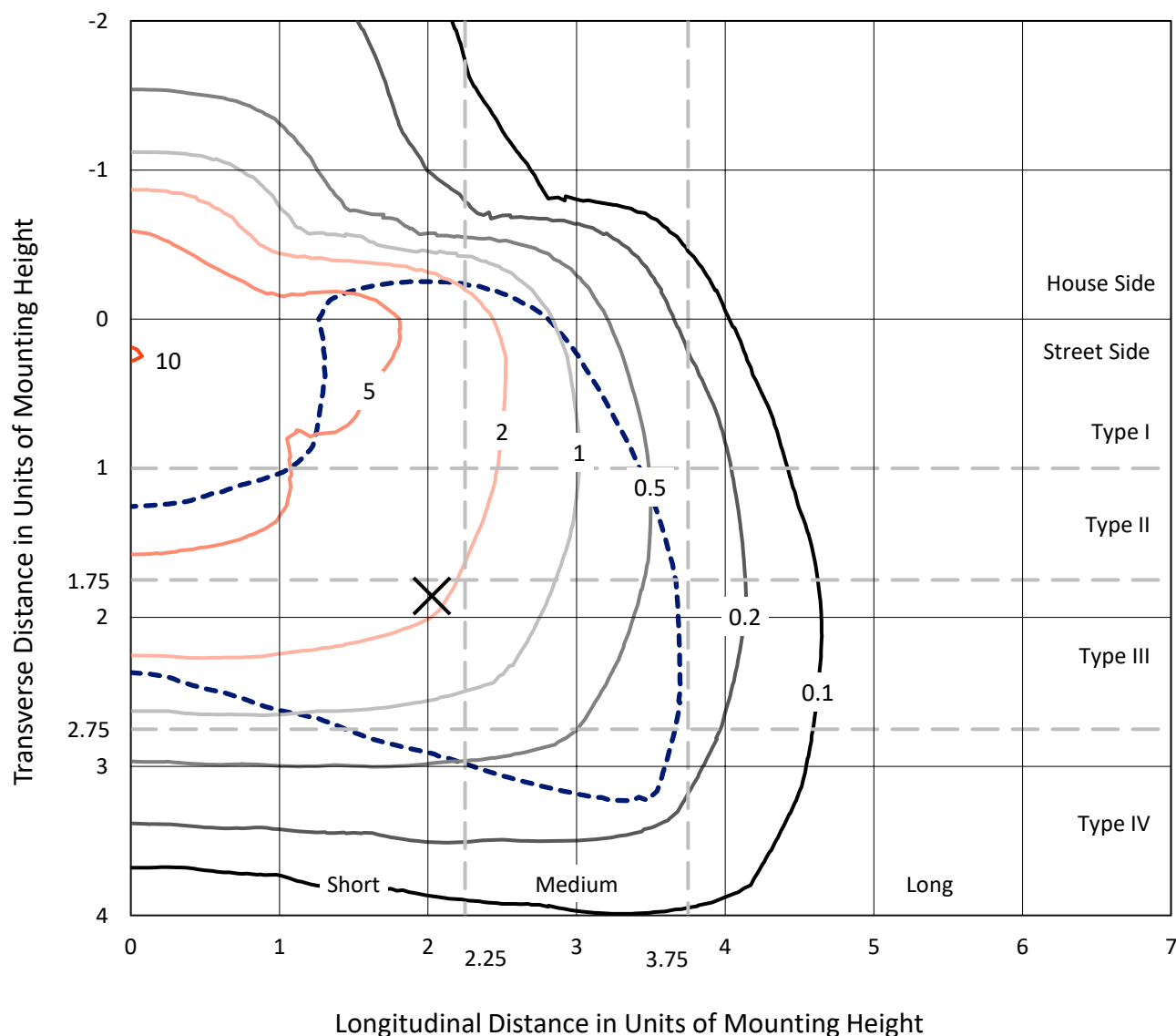
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



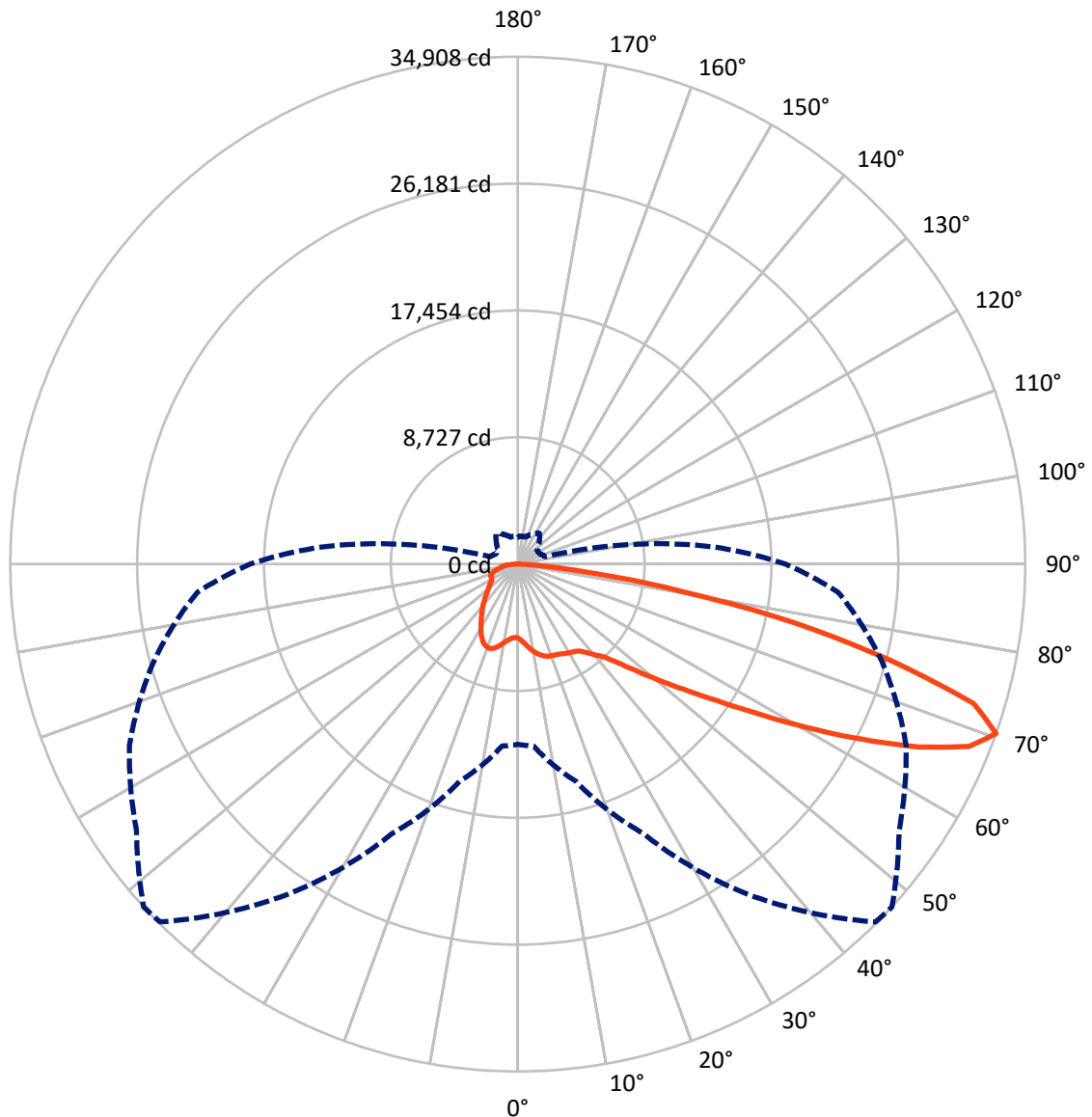
Based on 25 foot mounting height. Maximum calculated value = 10.3 fc

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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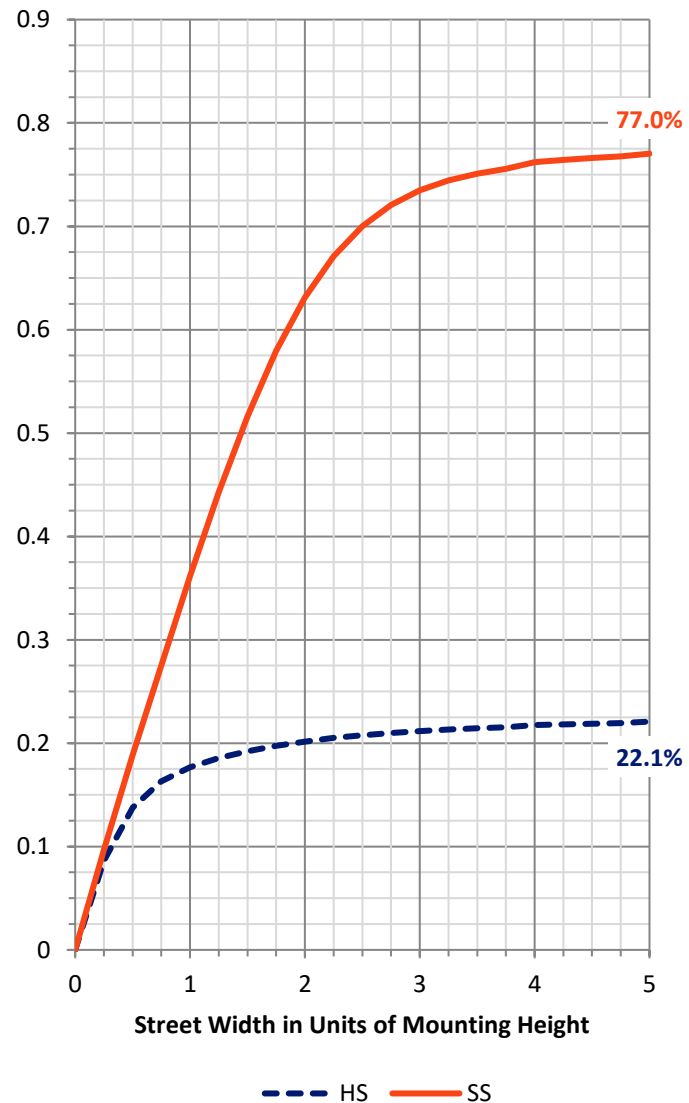
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11475.6	0.0	11475.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	39207.4	0.0	39207.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	50683.0	0.0	50683.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.5	1.0
10°-20°	1753.3	3.5
20°-30°	2915.7	5.8
30°-40°	4132.6	8.2
40°-50°	6100.7	12.0
50°-60°	10566.6	20.8
60°-70°	14925.6	29.4
70°-80°	8580.1	16.9
80°-90°	1183.8	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°	50683.0	100.0
0°-180°	50683.0	100.0

Coefficient of Utilization



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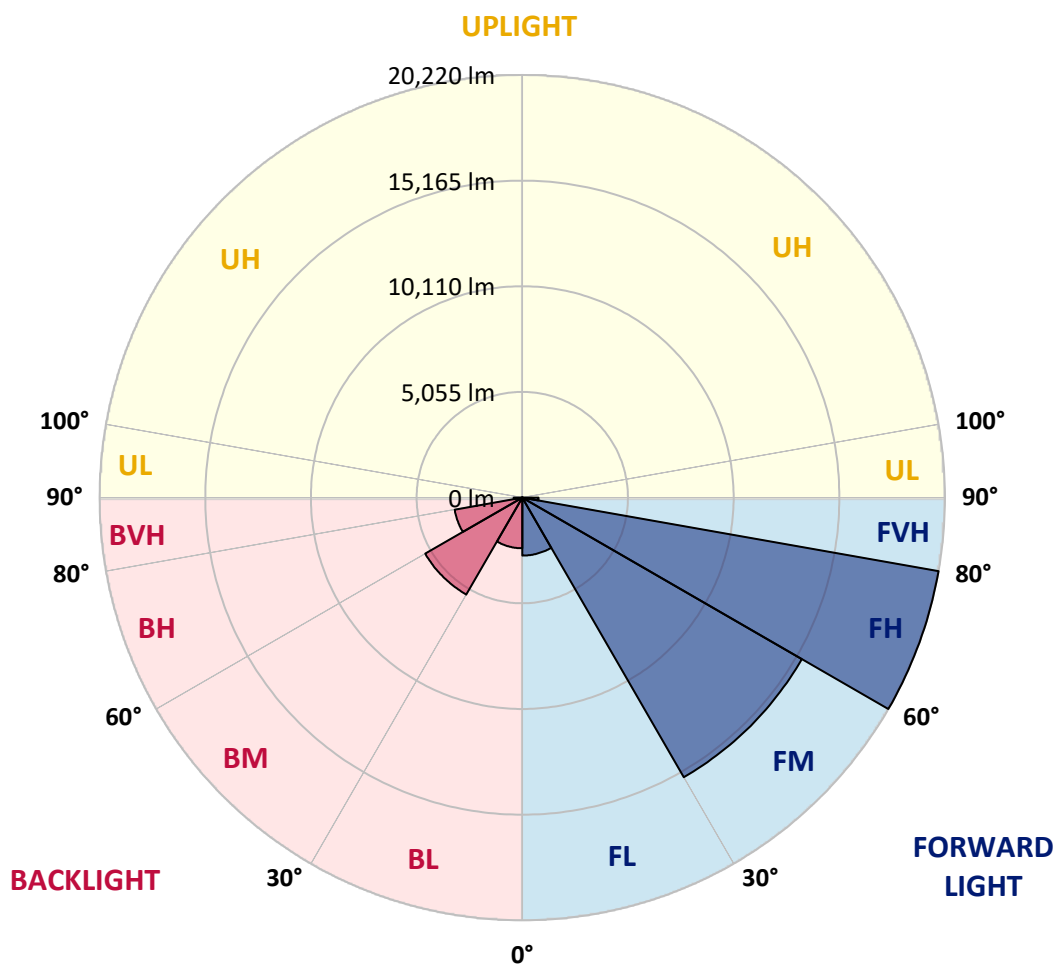
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2771.5	5.5			
FM	(30°-60°)	15442.1	30.5			
FH	(60°-80°)	20220.4	39.9			G5
FVH	(80°-90°)	773.3	1.5			G5
BL	(0°-30°)	2422.0	4.8	B3/2500		
BM	(30°-60°)	5357.8	10.6	B4/8500		
BH	(60°-80°)	3285.3	6.5	B4/5000		G4/5000
BVH	(80°-90°)	410.5	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°	5088.0	5088.0	5088.0	5088.0	5088.0	5088.0	5088.0	5088.0	5088.0	5088.0	5088.0
2.5°	5416.1	5397.1	5394.4	5353.8	5332.1	5291.4	5275.1	5237.1	5191.0	5144.9	5101.5
5°	5841.9	5841.9	5823.0	5766.0	5676.5	5584.3	5543.6	5470.4	5340.2	5234.4	5144.9
7.5°	6278.6	6284.0	6246.0	6162.0	6034.5	5885.3	5847.4	5738.9	5554.5	5399.9	5267.0
10°	6655.6	6655.6	6604.0	6490.1	6330.1	6167.4	6129.4	6007.4	5801.3	5608.7	5435.1
12.5°	6943.1	6943.1	6875.3	6726.1	6552.5	6406.1	6362.7	6246.0	6053.5	5839.2	5619.5
15°	7130.2	7116.6	7040.7	6872.5	6704.4	6576.9	6547.1	6449.5	6273.2	6056.2	5809.4
17.5°	7138.3	7132.9	7059.7	6918.7	6772.2	6685.4	6666.4	6601.3	6463.0	6256.9	5996.5
20°	6981.0	6991.9	6943.1	6842.7	6772.2	6734.2	6726.1	6704.4	6606.8	6414.2	6153.8
22.5°	6812.9	6831.9	6785.8	6731.5	6726.1	6764.1	6769.5	6774.9	6712.5	6525.4	6286.7
25°	6772.2	6785.8	6739.7	6690.8	6720.7	6821.0	6842.7	6864.4	6815.6	6658.3	6444.0
27.5°	6978.3	6967.5	6878.0	6772.2	6791.2	6926.8	6956.6	6981.0	6956.6	6821.0	6639.3
30°	7561.4	7526.2	7347.2	7038.0	6940.4	7035.3	7065.1	7132.9	7132.9	7032.6	6850.9
32.5°	8537.8	8470.0	8141.8	7534.3	7195.3	7138.3	7168.2	7279.4	7336.3	7257.7	7059.7
35°	9723.0	9652.5	9183.3	8366.9	7661.8	7344.5	7336.3	7461.1	7613.0	7436.7	7179.0
37.5°	10913.6	10840.4	10276.3	9359.6	8342.5	7778.4	7729.6	7773.0	7838.1	7515.3	7344.5
40°	12104.3	12017.5	11523.9	10468.8	9175.1	8353.4	8225.9	8030.6	8003.5	7773.0	7664.5
42.5°	13284.0	13205.4	12955.9	11713.7	10173.2	8914.8	8719.5	8383.2	8486.3	8347.9	8253.0
45°	14474.7	14480.1	14214.3	13110.5	11377.4	9950.8	9687.7	9161.6	9405.7	9354.2	9408.4
47.5°	15529.7	15516.1	15421.2	14466.5	12871.8	11285.2	10946.2	10335.9	10753.6	10943.5	11358.4
50°	16552.2	16544.0	16549.4	16004.3	14607.6	12871.8	12497.5	11857.4	12798.6	13457.6	14200.7
52.5°	18016.7	18062.8	17734.6	17590.9	16717.6	14745.9	14333.6	13671.9	15215.1	16253.8	17704.8
55°	19486.7	19448.7	19191.1	19340.2	18925.3	16964.4	16533.2	16007.0	17905.5	19041.9	21222.4
57.5°	20351.9	20365.4	20628.5	21358.1	21651.0	19730.8	19340.2	18933.4	20929.5	21735.0	24352.3
60°	21130.2	21192.6	21949.3	23327.1	24121.7	23129.1	22781.9	22386.0	23704.1	24024.1	27069.8
62.5°	21374.3	21566.9	22887.7	24948.9	26530.1	26964.0	26532.8	25659.5	26345.7	26220.9	28911.3
65°	20156.6	20419.7	22787.3	25556.4	28680.8	30603.7	30329.8	28707.9	28596.7	27845.5	29212.4
67.5°	16950.8	17213.9	20254.2	24281.7	29570.4	33755.2	33481.3	30931.9	29963.7	27997.4	26934.2
70°	12402.6	12568.0	15475.4	20444.1	27783.1	34813.0	34907.9	32016.7	29475.5	25933.4	22114.7
72.5°	7146.5	7512.6	9549.4	14382.4	22697.8	32138.8	32797.8	29760.2	26389.1	21634.7	15461.9
75°	3072.8	3081.0	4415.4	7933.0	15372.4	25833.1	26470.4	24669.6	20723.4	14960.1	8255.7
77.5°	1461.8	1489.0	1941.9	3542.0	8461.9	17848.6	19568.0	17428.2	13254.2	7187.2	3119.0
80°	949.2	968.2	1187.9	1757.5	4149.6	10349.5	11548.3	10053.9	5847.4	2568.4	1345.2
82.5°	575.0	580.4	794.7	1074.0	2283.6	4686.6	5524.6	4363.8	2495.2	1537.8	791.9
85°	349.9	352.6	482.8	664.5	1385.9	1619.1	1662.5	1649.0	1464.6	1006.2	423.1
87.5°	168.2	173.6	249.5	314.6	545.1	501.7	474.6	550.6	691.6	542.4	181.7
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°	5088.0	5088.0	5088.0	5088.0	5088.0	5088.0	5088.0	5088.0	5088.0	5088.0	5088.0
2.5°	5082.5	5074.4	5055.4	5047.3	5041.9	5044.6	5041.9	5041.9	5044.6	5044.6	5044.6
5°	5106.9	5093.4	5063.6	5063.6	5079.8	5117.8	5153.1	5180.2	5210.0	5207.3	5207.3
7.5°	5212.7	5188.3	5153.1	5163.9	5204.6	5264.3	5326.6	5386.3	5446.0	5451.4	5448.7
10°	5367.3	5342.9	5304.9	5318.5	5383.6	5473.1	5551.7	5638.5	5703.6	5722.6	5717.2
12.5°	5543.6	5494.8	5462.2	5500.2	5603.3	5722.6	5798.5	5863.6	5909.7	5936.9	5926.0
15°	5722.6	5676.5	5638.5	5717.2	5841.9	5953.1	5991.1	6002.0	6010.1	6037.2	6031.8
17.5°	5896.2	5833.8	5820.2	5923.3	6042.6	6091.5	6069.8	6023.6	5988.4	6010.1	6007.4
20°	6050.8	6002.0	5996.5	6099.6	6145.7	6099.6	6007.4	5926.0	5863.6	5869.1	5866.3
22.5°	6197.2	6159.3	6164.7	6208.1	6134.8	5977.5	5825.7	5714.5	5646.7	5660.2	5668.4
25°	6360.0	6322.0	6335.5	6265.0	6023.6	5749.7	5530.0	5435.1	5408.0	5435.1	5454.1
27.5°	6571.5	6547.1	6539.0	6267.7	5825.7	5413.4	5163.9	5128.6	5153.1	5212.7	5242.6
30°	6799.3	6799.3	6755.9	6221.6	5554.5	5009.3	4792.3	4797.8	4881.8	4965.9	4995.8
32.5°	7019.0	7065.1	6929.5	6096.9	5204.6	4616.1	4450.6	4456.0	4529.3	4632.3	4659.4
35°	7200.7	7333.6	7078.7	5869.1	4792.3	4285.2	4160.4	4087.2	4089.9	4168.5	4190.2
37.5°	7450.2	7697.0	7165.5	5530.0	4353.0	4003.1	3862.1	3734.6	3650.5	3618.0	3618.0
40°	7884.2	8247.6	7187.2	5028.3	3938.0	3734.6	3533.9	3382.0	3219.3	3072.8	3045.7
42.5°	8619.2	9077.5	7143.8	4450.6	3563.7	3439.0	3243.7	3056.6	2831.5	2625.3	2609.1
45°	9921.0	10156.9	7027.1	3851.2	3230.2	3154.2	2964.4	2761.0	2522.3	2337.9	2324.3
47.5°	12006.6	11673.0	6872.5	3319.7	2926.4	2904.7	2758.2	2522.3	2283.6	2156.1	2142.6
50°	15052.3	14059.7	6850.9	2934.5	2682.3	2693.1	2573.8	2356.8	2148.0	2042.2	2026.0
52.5°	18719.1	16942.7	6994.6	2663.3	2468.0	2508.7	2449.1	2248.4	2063.9	1974.4	1958.2
55°	22277.5	19535.5	7081.4	2451.8	2267.3	2343.3	2351.4	2183.3	2015.1	1925.6	1914.8
57.5°	25165.9	21488.2	6696.3	2259.2	2093.8	2210.4	2270.1	2145.3	1990.7	1922.9	1912.1
60°	27175.6	22410.4	5600.6	2088.3	1966.3	2104.6	2240.2	2148.0	2050.4	2058.5	2063.9
62.5°	27815.6	22000.8	4201.1	1960.9	1879.5	2069.4	2289.0	2259.2	2158.9	2221.2	2232.1
65°	26755.2	20308.5	3045.7	1860.5	1803.6	2093.8	2435.5	2340.6	2120.9	2167.0	2167.0
67.5°	23205.0	17496.0	2370.4	1768.3	1716.8	2139.9	2582.0	2332.4	2031.4	2085.6	2036.8
70°	18407.3	13533.5	1974.4	1665.3	1624.6	2072.1	2595.5	2248.4	1925.6	1936.5	1844.3
72.5°	12215.5	8898.5	1697.8	1567.6	1483.5	1863.2	2484.3	2139.9	1822.6	1760.2	1668.0
75°	5985.7	4437.1	1480.8	1445.6	1299.1	1621.9	2332.4	2036.8	1711.4	1613.7	1562.2
77.5°	2318.9	1887.6	1263.9	1291.0	1131.0	1429.3	2131.7	1890.4	1564.9	1432.0	1391.3
80°	1125.5	1071.3	1036.0	1076.7	930.3	1217.7	1947.3	1762.9	1429.3	1282.8	1223.2
82.5°	699.7	661.8	794.7	838.0	716.0	1112.0	1847.0	1654.4	1258.4	1063.2	1014.3
85°	355.3	379.7	531.6	572.3	512.6	884.2	1521.5	1242.2	908.6	754.0	759.4
87.5°	135.6	181.7	279.3	301.0	273.9	466.5	838.0	724.1	583.1	396.0	366.1
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)