

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: P648619

Luminaire Tested: **GALN-SA8B-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21880.1 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

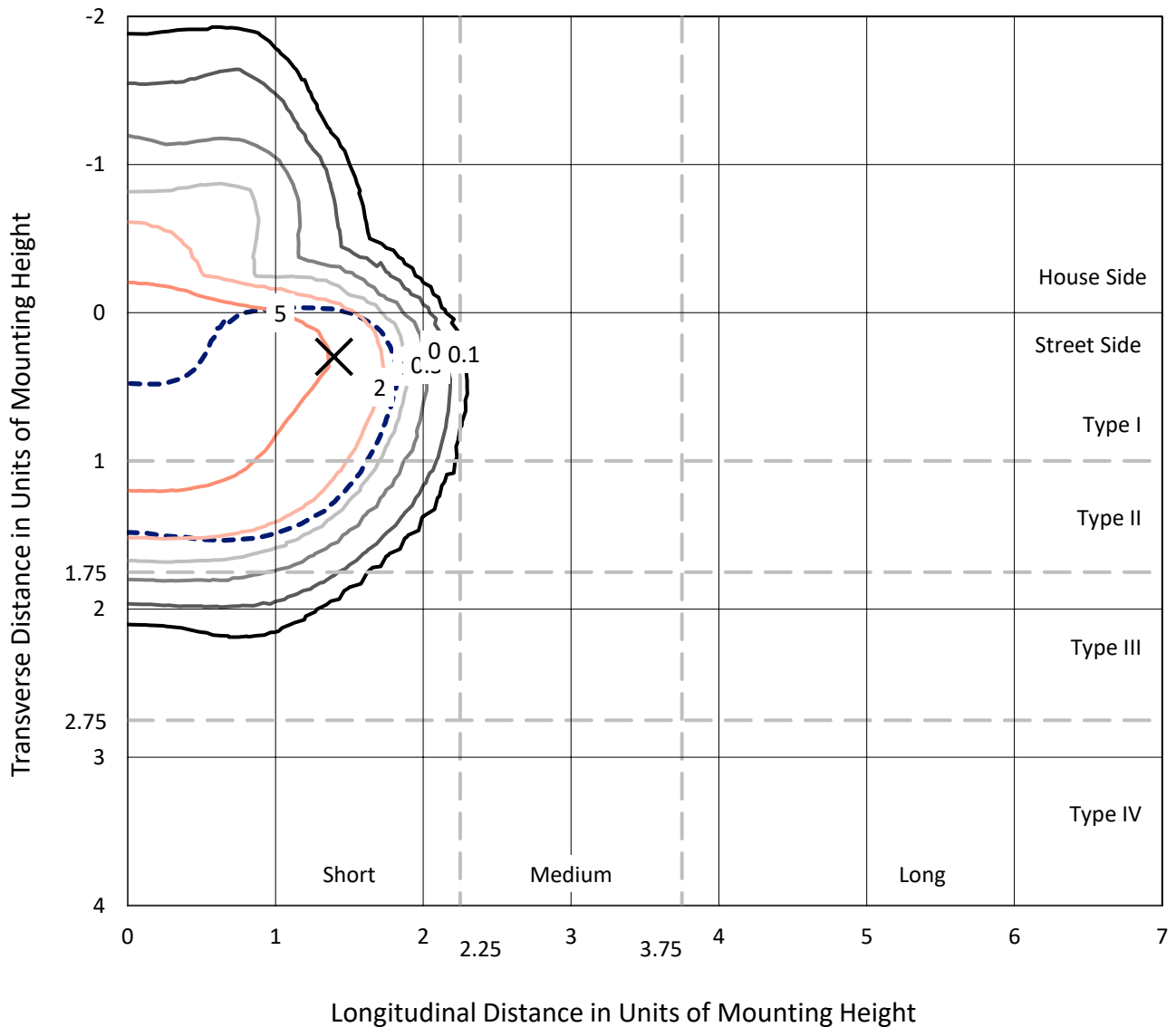
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

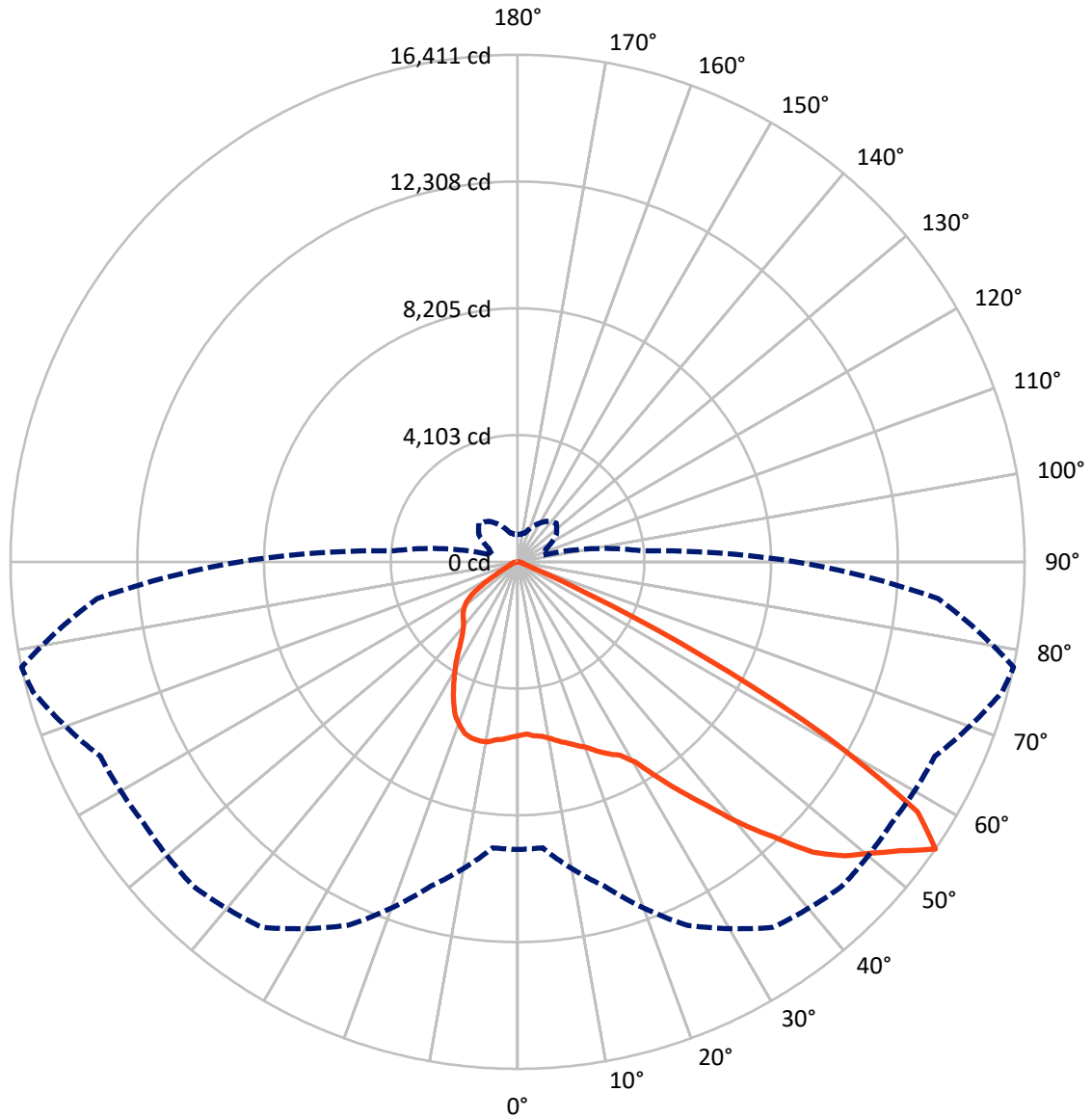
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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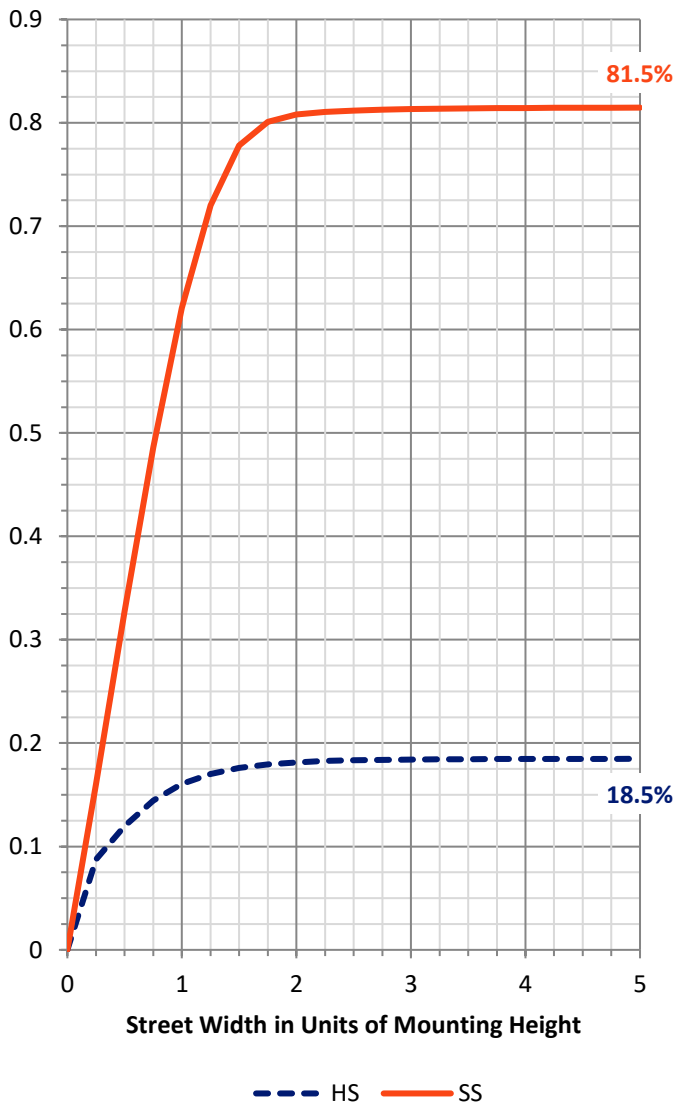
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4064.0	0.0	4064.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	17816.2	0.0	17816.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	21880.1	0.0	21880.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.6	2.3
10°-20°	1327.5	6.1
20°-30°	2326.9	10.6
30°-40°	3836.7	17.5
40°-50°	5582.9	25.5
50°-60°	6326.1	28.9
60°-70°	1808.7	8.3
70°-80°	140.4	0.6
80°-90°	29.2	0.1
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°	21880.1	100.0
0°-180°	21880.1	100.0



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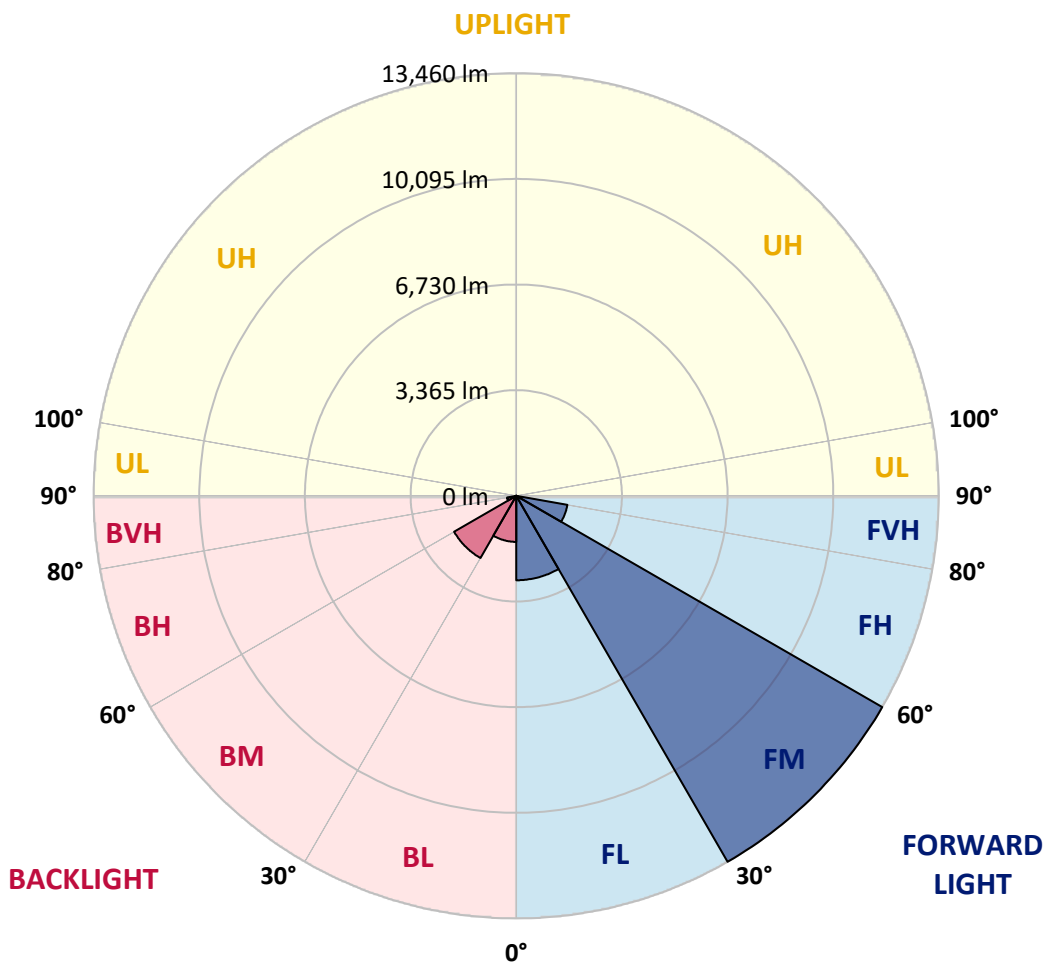
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2689.7	12.3			
FM (30°-60°)	13459.7	61.5			
FH (60°-80°)	1652.5	7.6			G1/1800
FVH (80°-90°)	14.2	0.1			G1/100
BL (0°-30°)	1466.3	6.7	B3/2500		
BM (30°-60°)	2286.1	10.4	B2/2500		
BH (60°-80°)	296.6	1.4	B1/500		G1/500
BVH (80°-90°)	15.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5625.4	5625.4	5625.4	5625.4	5625.4	5625.4	5625.4	5625.4	5625.4	5625.4	5625.4
2.5°	5289.0	5339.8	5347.7	5410.2	5406.3	5511.9	5543.2	5547.2	5617.6	5582.4	5672.4
5°	5140.3	5112.9	5101.2	5210.7	5242.0	5335.9	5414.1	5461.1	5605.8	5656.7	5750.6
7.5°	5007.3	5007.3	5015.1	5112.9	5101.2	5222.5	5304.6	5449.4	5660.6	5703.6	5817.1
10°	4878.2	4831.3	4889.9	4991.6	5077.8	5132.5	5304.6	5441.5	5688.0	5813.1	5969.7
12.5°	4811.7	4835.2	4843.0	4917.3	5011.2	5175.6	5269.4	5496.3	5883.6	5957.9	6126.1
15°	5230.3	5183.4	5069.9	5003.4	5081.7	5159.9	5394.6	5625.4	5985.3	6091.0	6278.7
17.5°	5715.4	5676.3	5582.4	5402.4	5226.4	5371.1	5555.0	5766.2	6094.9	6251.3	6529.0
20°	6349.1	6286.6	6192.7	5840.6	5688.0	5531.5	5727.1	5977.5	6274.8	6415.6	6701.2
22.5°	7104.2	7104.2	6892.9	6466.5	6149.6	6000.9	6083.1	6227.8	6474.3	6666.0	6947.6
25°	7890.4	7867.0	7675.3	7233.2	6697.3	6521.2	6615.1	6716.8	6783.4	6889.0	7076.8
27.5°	8790.2	8653.2	8410.8	7921.7	7448.4	7108.0	7209.7	7119.7	7037.6	7092.4	7362.3
30°	9400.5	9486.5	9177.5	8708.1	8262.1	7882.6	7902.2	7823.9	7448.4	7526.6	7687.0
32.5°	10034.1	10089.0	9916.9	9658.6	9212.7	8770.6	8610.3	8543.7	8262.1	8297.3	8140.8
35°	10562.3	10667.9	10515.4	10401.9	10272.8	9916.9	9474.8	9689.9	9236.1	9150.1	8743.2
37.5°	11047.3	11016.1	11196.0	11078.7	11051.3	10800.9	10315.9	10358.9	10053.7	10034.1	9564.7
40°	11481.6	11489.4	11735.9	11790.6	11681.1	11235.2	10531.0	10871.3	11117.8	11141.2	10538.8
42.5°	11841.5	11947.1	12158.3	12600.4	12436.2	11692.9	10754.0	11125.6	12041.1	12185.8	11462.0
45°	12154.4	12369.6	12631.7	13026.8	12933.0	12342.3	11309.5	11649.8	13026.8	13406.3	12330.5
47.5°	12174.0	12455.7	12741.3	13328.1	13445.4	12690.4	11884.5	12479.1	13809.2	14220.0	12964.2
50°	12095.8	12244.5	12815.6	13453.3	13719.3	13257.6	12690.4	13175.5	14568.1	14826.3	13285.0
52.5°	11168.6	11282.1	12428.3	13570.6	14212.2	13899.2	13758.3	14145.7	15342.7	15534.4	13586.2
55°	9310.5	9290.9	10867.4	12979.9	14439.1	14849.8	14763.8	14900.6	16238.6	16410.7	13660.5
57.5°	6368.7	6724.6	8086.0	10808.8	13050.3	14626.8	14716.8	14489.9	15194.0	15260.6	11908.0
60°	3434.7	3583.3	4678.7	7213.6	9936.3	11919.8	12154.4	11743.7	11688.9	11501.2	8500.7
62.5°	1365.2	1439.6	2061.6	3571.7	5414.1	7244.9	7749.6	7581.4	7221.5	6728.6	4400.9
65°	649.4	696.3	1024.9	1670.4	2401.9	3020.0	3524.7	3681.1	2714.9	2445.0	1451.4
67.5°	442.1	477.2	747.2	954.6	856.8	895.8	1165.7	1083.6	637.7	543.8	402.9
70°	336.5	359.9	598.5	649.4	383.4	269.9	301.2	281.6	262.1	266.0	262.1
72.5°	238.7	258.2	438.2	383.4	168.2	125.2	160.4	191.7	191.7	191.7	187.8
75°	144.8	164.3	254.2	148.7	66.5	66.5	101.7	129.1	136.9	140.9	133.0
77.5°	74.3	93.9	86.1	43.1	43.1	50.8	74.3	90.0	97.8	97.8	93.9
80°	15.7	15.7	15.7	23.5	43.1	54.7	74.3	82.1	93.9	93.9	86.1
82.5°	0.0	3.9	11.7	23.5	39.2	50.8	70.4	82.1	93.9	97.8	90.0
85°	0.0	3.9	7.8	15.7	27.4	31.3	27.4	23.5	23.5	23.5	23.5
87.5°	0.0	0.0	3.9	3.9	3.9	7.8	7.8	7.8	7.8	7.8	7.8
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°	5625.4	5625.4	5625.4	5625.4	5625.4	5625.4	5625.4	5625.4	5625.4	5625.4	5625.4
2.5°	5680.2	5691.9	5672.4	5668.5	5652.8	5699.7	5586.3	5558.9	5629.3	5562.8	5578.5
5°	5754.5	5781.9	5746.7	5688.0	5601.9	5468.9	5355.5	5206.8	5136.4	5085.6	5077.8
7.5°	5809.2	5828.8	5793.7	5605.8	5347.7	5011.2	4760.9	4577.0	4432.2	4389.2	4318.8
10°	6032.2	6036.1	5860.1	5445.5	4940.8	4498.7	4115.4	3833.7	3688.9	3599.0	3559.9
12.5°	6180.9	6173.1	5817.1	5128.6	4455.7	3869.0	3430.8	3090.4	2957.5	2914.4	2887.0
15°	6368.7	6325.6	5715.4	4803.9	3829.8	3196.0	2800.9	2566.3	2554.5	2527.1	2554.5
17.5°	6517.3	6396.1	5566.7	4213.2	3231.3	2632.8	2374.5	2390.2	2421.5	2448.9	2452.8
20°	6759.9	6509.5	5226.4	3696.8	2675.7	2257.2	2253.3	2323.7	2401.9	2433.3	2464.6
22.5°	6943.7	6556.5	4862.6	3145.2	2222.0	2104.6	2171.1	2276.7	2335.5	2366.8	2413.7
25°	7010.2	6427.3	4377.5	2593.6	2002.9	2034.2	2135.9	2206.3	2280.6	2315.9	2296.3
27.5°	7076.8	6360.9	3798.5	2135.9	1885.5	1987.3	2073.3	2143.8	2167.2	2214.2	2245.5
30°	7237.1	6130.0	3278.2	1846.5	1826.9	1956.0	2018.6	2042.1	2104.6	2132.0	2132.0
32.5°	7366.2	6040.1	2726.6	1709.5	1819.1	1971.6	1979.4	1979.4	1987.3	1967.7	1959.9
35°	7632.2	5731.0	2233.7	1627.4	1815.2	1975.5	1995.1	1928.6	1748.7	1678.2	1658.7
37.5°	7960.8	5531.5	1869.9	1607.8	1842.6	2022.5	2053.8	1803.4	1568.7	1455.3	1435.7
40°	8359.9	5390.7	1631.3	1600.0	1905.1	2132.0	2038.1	1705.6	1400.5	1236.2	1228.4
42.5°	8825.3	5261.6	1470.9	1596.1	1983.3	2245.5	2022.5	1623.5	1228.4	1118.8	1134.5
45°	9197.0	5191.1	1361.3	1568.7	2010.7	2312.0	2034.2	1478.7	1158.0	1087.5	1095.3
47.5°	9486.5	5042.5	1271.4	1521.8	2006.8	2335.5	1928.6	1420.0	1122.7	1142.3	1161.8
50°	9494.3	4843.0	1158.0	1420.0	1948.2	2292.4	1807.3	1365.2	1114.9	1197.1	1236.2
52.5°	9388.7	4561.4	1036.7	1275.3	1811.2	2143.8	1697.8	1341.8	1079.7	1071.8	1118.8
55°	9013.2	4033.2	833.3	1032.8	1529.6	1768.2	1600.0	1298.8	974.1	884.1	891.9
57.5°	7284.1	2890.9	614.2	739.4	1083.6	1294.8	1443.5	1279.2	876.3	751.1	755.0
60°	4510.5	1639.1	449.9	504.6	668.9	786.3	1169.6	1189.2	782.4	633.8	625.9
62.5°	2315.9	809.8	348.2	356.0	410.8	461.6	801.9	997.5	708.1	602.4	602.4
65°	774.5	399.0	305.1	273.8	273.8	285.6	485.1	692.4	598.5	504.6	504.6
67.5°	332.5	297.3	266.0	238.7	219.1	207.3	273.8	402.9	446.0	383.4	367.7
70°	258.2	250.4	230.8	199.5	172.1	156.4	160.4	207.3	254.2	246.5	238.7
72.5°	191.7	191.7	183.8	156.4	133.0	113.5	105.6	109.5	121.3	125.2	129.1
75°	133.0	136.9	136.9	121.3	97.8	82.1	70.4	58.6	47.0	39.2	35.2
77.5°	90.0	93.9	101.7	90.0	74.3	54.7	43.1	31.3	19.6	7.8	7.8
80°	78.2	90.0	97.8	90.0	78.2	58.6	43.1	23.5	11.7	0.0	0.0
82.5°	82.1	90.0	101.7	86.1	74.3	54.7	43.1	27.4	11.7	3.9	0.0
85°	19.6	19.6	23.5	27.4	35.2	39.2	31.3	19.6	11.7	3.9	0.0
87.5°	7.8	7.8	7.8	7.8	7.8	3.9	3.9	3.9	3.9	0.0	0.0
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)