

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: P522913

Luminaire Tested: **GALN-SA9B-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522913
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-SA9B-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48089 lumens
Efficiency: N/A
Efficacy: 132.1 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

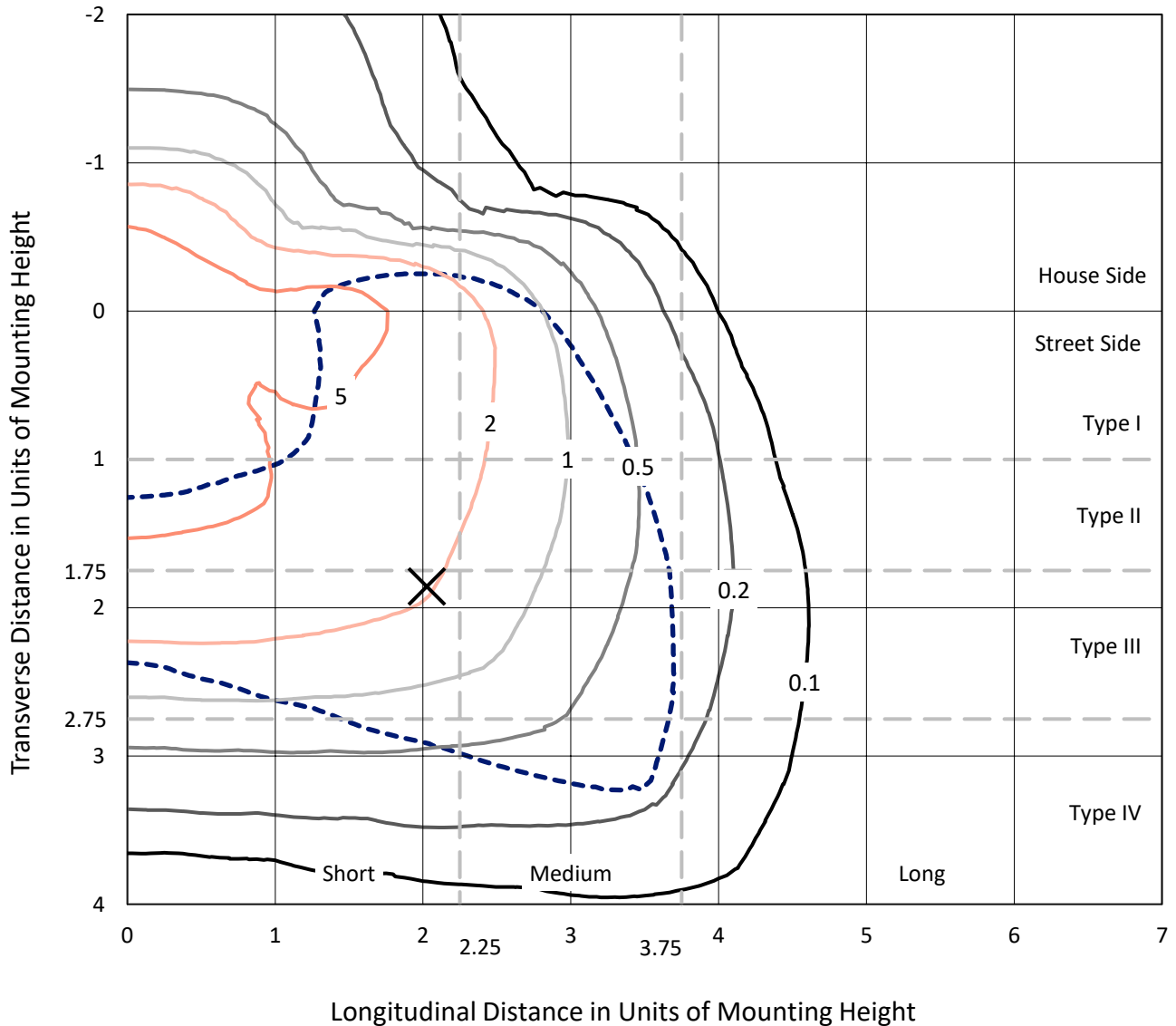
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

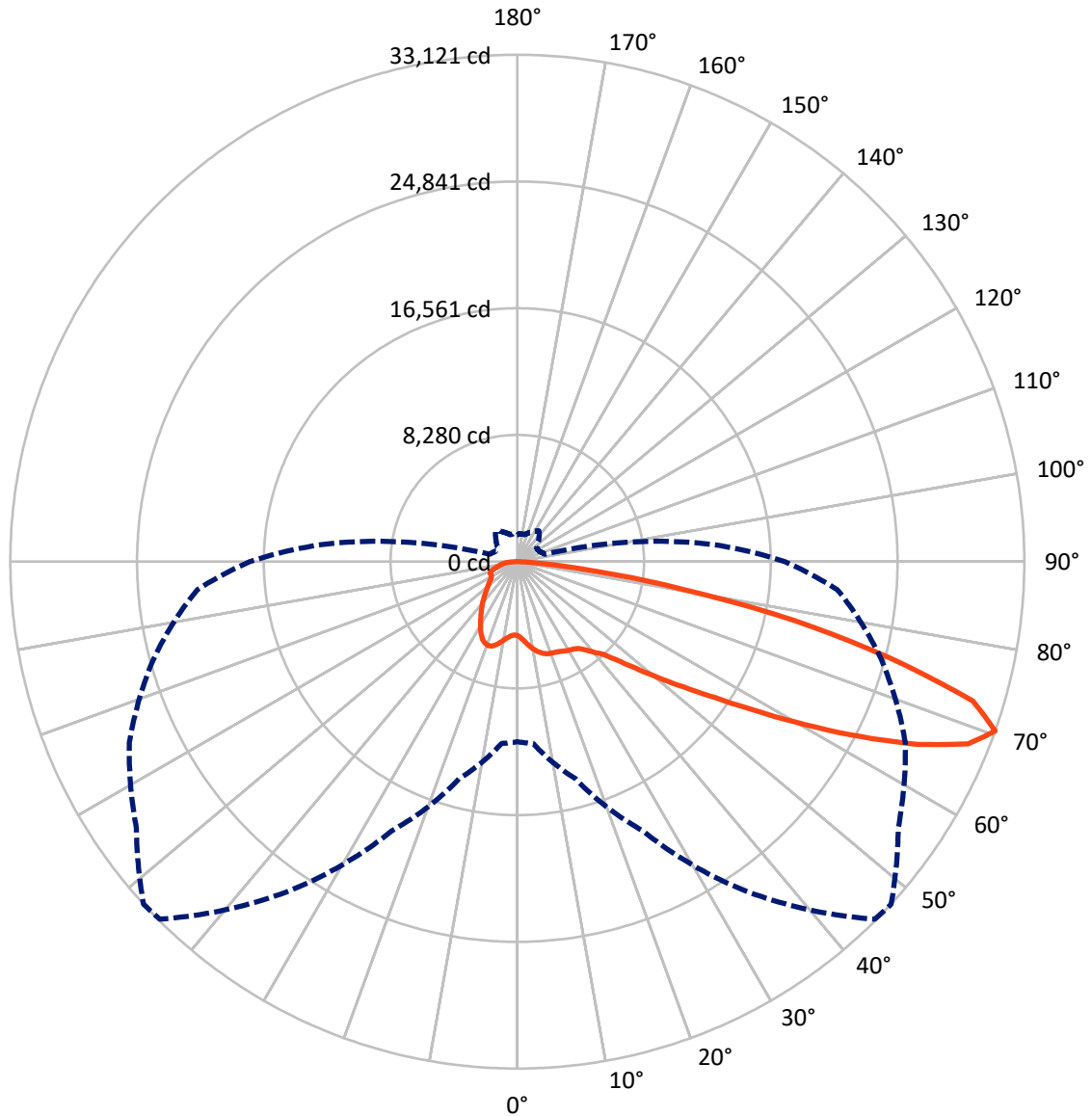
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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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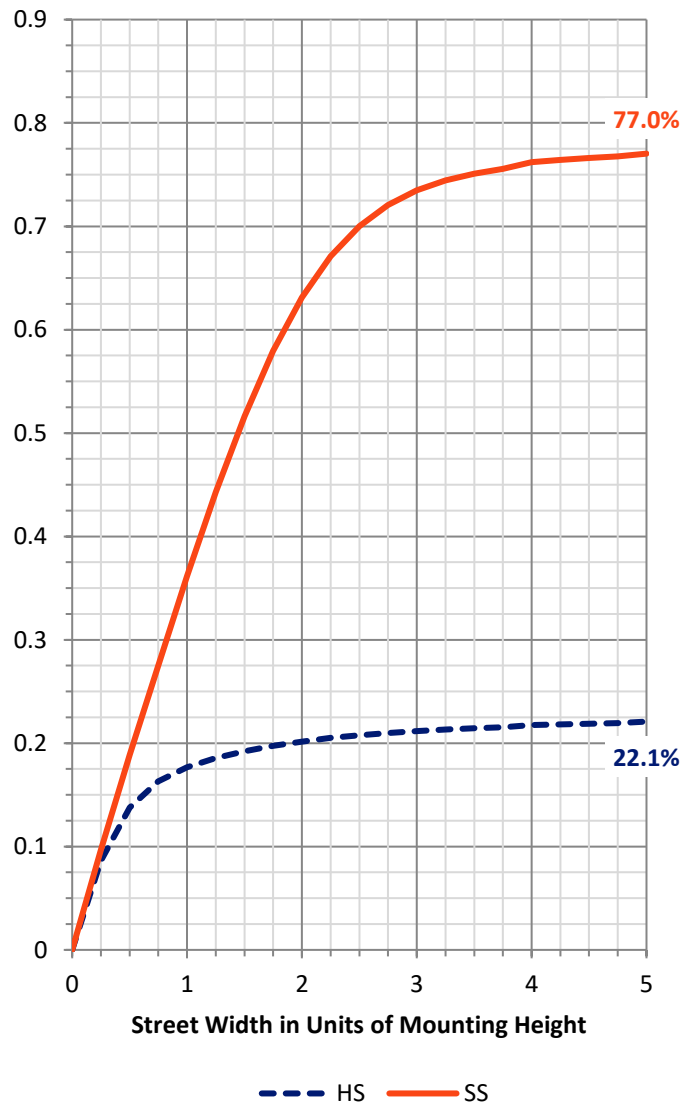
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10888.3	0.0	10888.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	37200.7	0.0	37200.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	48089.0	0.0	48089.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.6	1.0
10°-20°	1663.6	3.5
20°-30°	2766.5	5.8
30°-40°	3921.1	8.2
40°-50°	5788.4	12.0
50°-60°	10025.8	20.8
60°-70°	14161.7	29.4
70°-80°	8140.9	16.9
80°-90°	1123.3	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°	48089.0	100.0
0°-180°	48089.0	100.0



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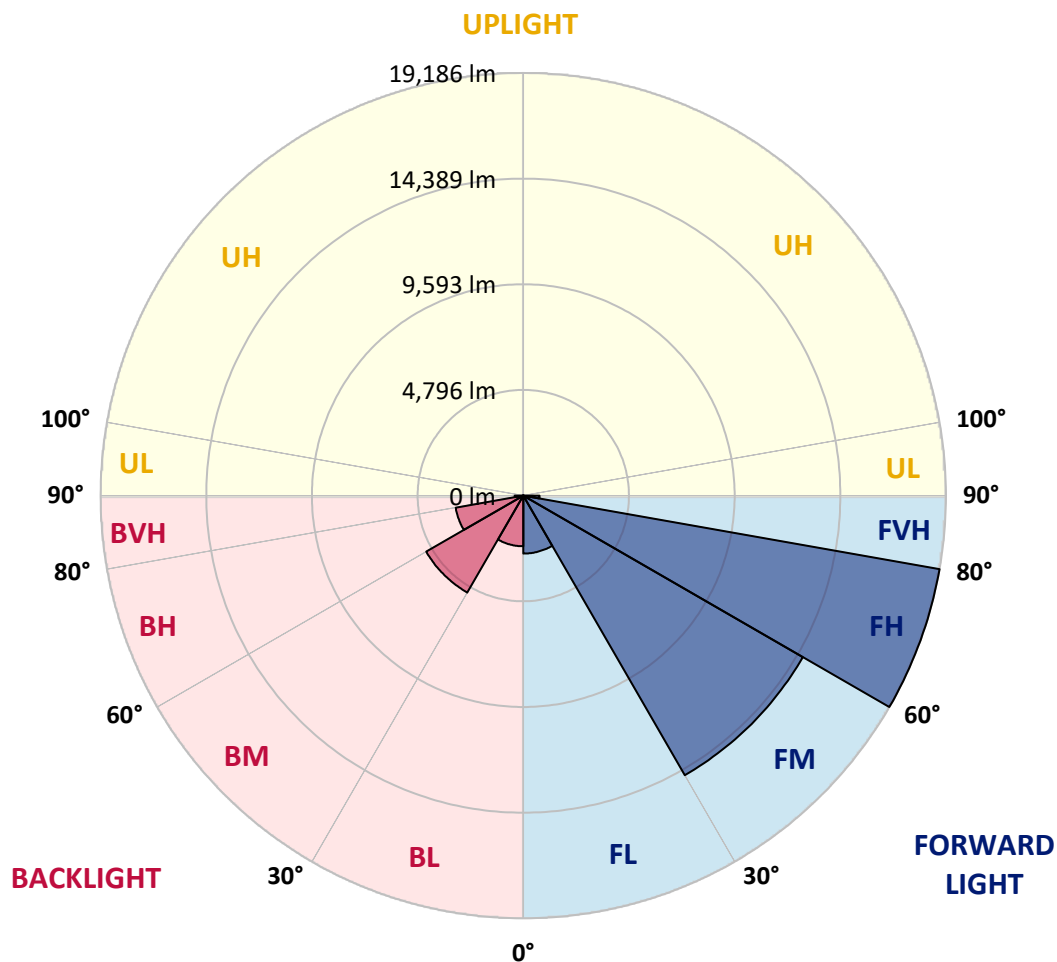
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2629.7	5.5			
FM	(30°-60°)	14651.8	30.5			
FH	(60°-80°)	19185.5	39.9			G5
FVH	(80°-90°)	733.7	1.5			G4/750
BL	(0°-30°)	2298.0	4.8	B3/2500		
BM	(30°-60°)	5083.6	10.6	B4/8500		
BH	(60°-80°)	3117.2	6.5	B4/5000		G4/5000
BVH	(80°-90°)	389.5	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°	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6
2.5°	5138.9	5120.9	5118.3	5079.7	5059.2	5020.6	5005.1	4969.1	4925.3	4881.6	4840.4
5°	5542.9	5542.9	5524.9	5470.9	5386.0	5298.5	5259.9	5190.4	5066.9	4966.5	4881.6
7.5°	5957.2	5962.4	5926.4	5846.6	5725.6	5584.1	5548.1	5445.2	5270.2	5123.5	4997.4
10°	6314.9	6314.9	6266.0	6158.0	6006.1	5851.7	5815.7	5699.9	5504.3	5321.6	5156.9
12.5°	6587.7	6587.7	6523.4	6381.8	6217.2	6078.2	6037.0	5926.4	5743.7	5540.4	5331.9
15°	6765.3	6752.4	6680.4	6520.8	6361.3	6240.3	6212.0	6119.4	5952.1	5746.2	5512.1
17.5°	6773.0	6767.8	6698.4	6564.6	6425.6	6343.2	6325.2	6263.5	6132.2	5936.7	5689.6
20°	6623.7	6634.0	6587.7	6492.5	6425.6	6389.6	6381.8	6361.3	6268.6	6085.9	5838.9
22.5°	6464.2	6482.2	6438.5	6387.0	6381.8	6417.9	6423.0	6428.2	6369.0	6191.4	5965.0
25°	6425.6	6438.5	6394.7	6348.4	6376.7	6471.9	6492.5	6513.1	6466.8	6317.5	6114.2
27.5°	6621.2	6610.9	6526.0	6425.6	6443.6	6572.3	6600.6	6623.7	6600.6	6471.9	6299.5
30°	7174.4	7141.0	6971.1	6677.8	6585.1	6675.2	6703.5	6767.8	6767.8	6672.6	6500.2
32.5°	8100.8	8036.5	7725.1	7148.7	6827.0	6773.0	6801.3	6906.8	6960.8	6886.2	6698.4
35°	9225.4	9158.5	8713.3	7938.7	7269.6	6968.6	6960.8	7079.2	7223.3	7056.1	6811.6
37.5°	10355.1	10285.6	9750.3	8880.5	7915.5	7380.3	7334.0	7375.1	7436.9	7130.7	6968.6
40°	11484.7	11402.4	10934.1	9933.0	8705.6	7925.8	7804.9	7619.6	7593.9	7375.1	7272.2
42.5°	12604.1	12529.5	12292.8	11114.2	9652.5	8458.5	8273.2	7954.1	8051.9	7920.7	7830.6
45°	13733.8	13739.0	13486.8	12439.5	10795.1	9441.5	9191.9	8692.7	8924.3	8875.4	8926.9
47.5°	14734.9	14722.0	14631.9	13726.1	12213.0	10707.6	10385.9	9806.9	10203.2	10383.4	10777.1
50°	15705.0	15697.3	15702.4	15185.2	13859.9	12213.0	11857.9	11250.6	12143.5	12768.8	13473.9
52.5°	17094.6	17138.3	16827.0	16690.6	15862.0	13991.2	13600.0	12972.1	14436.4	15421.9	16798.7
55°	18489.3	18453.3	18208.8	18350.4	17956.7	16096.1	15687.0	15187.8	16989.1	18067.3	20136.3
57.5°	19310.2	19323.1	19572.7	20264.9	20542.9	18720.9	18350.4	17964.4	19858.3	20622.6	23105.9
60°	20048.8	20108.0	20825.9	22133.2	22887.1	21945.3	21615.9	21240.2	22490.9	22794.5	25684.4
62.5°	20280.4	20463.1	21716.3	23672.0	25172.3	25584.0	25174.8	24346.2	24997.3	24878.9	27431.6
65°	19124.9	19374.6	21621.1	24248.4	27212.9	29037.4	28777.5	27238.6	27133.1	26420.3	27717.3
67.5°	16083.3	16332.9	19217.6	23039.0	28057.0	32027.6	31767.7	29348.8	28430.1	26564.4	25555.7
70°	11767.8	11924.8	14683.4	19397.7	26361.1	33031.2	33121.3	30378.1	27966.9	24606.1	20982.9
72.5°	6780.7	7128.1	9060.7	13646.3	21536.2	30493.9	31119.2	28237.1	25038.4	20527.4	14670.5
75°	2915.6	2923.3	4189.4	7527.0	14585.6	24510.9	25115.6	23407.0	19662.8	14194.5	7833.2
77.5°	1387.0	1412.8	1842.5	3360.8	8028.8	16935.0	18566.5	16536.2	12575.8	6819.3	2959.3
80°	900.7	918.7	1127.1	1667.5	3937.2	9819.8	10957.2	9539.3	5548.1	2436.9	1276.4
82.5°	545.5	550.7	754.0	1019.0	2166.7	4446.7	5241.9	4140.5	2367.5	1459.1	751.4
85°	332.0	334.5	458.1	630.5	1315.0	1536.3	1577.4	1564.6	1389.6	954.7	401.4
87.5°	159.5	164.7	236.7	298.5	517.2	476.1	450.3	522.4	656.2	514.7	172.4
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°	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6	4827.6
2.5°	4822.4	4814.7	4796.7	4789.0	4783.8	4786.4	4783.8	4783.8	4786.4	4786.4	4786.4
5°	4845.6	4832.7	4804.4	4804.4	4819.8	4855.9	4889.3	4915.1	4943.4	4940.8	4940.8
7.5°	4945.9	4922.8	4889.3	4899.6	4938.2	4994.8	5054.0	5110.6	5167.2	5172.4	5169.8
10°	5092.6	5069.4	5033.4	5046.3	5108.0	5193.0	5267.6	5349.9	5411.7	5429.7	5424.6
12.5°	5259.9	5213.6	5182.7	5218.7	5316.5	5429.7	5501.8	5563.5	5607.3	5633.0	5622.7
15°	5429.7	5386.0	5349.9	5424.6	5542.9	5648.4	5684.5	5694.8	5702.5	5728.2	5723.1
17.5°	5594.4	5535.2	5522.4	5620.1	5733.4	5779.7	5759.1	5715.4	5681.9	5702.5	5699.9
20°	5741.1	5694.8	5689.6	5787.4	5831.2	5787.4	5699.9	5622.7	5563.5	5568.7	5566.1
22.5°	5880.0	5844.0	5849.2	5890.3	5820.9	5671.6	5527.5	5422.0	5357.7	5370.5	5378.2
25°	6034.4	5998.4	6011.3	5944.4	5715.4	5455.4	5247.0	5156.9	5131.2	5156.9	5175.0
27.5°	6235.2	6212.0	6204.3	5947.0	5527.5	5136.4	4899.6	4866.2	4889.3	4945.9	4974.2
30°	6451.3	6451.3	6410.2	5903.2	5270.2	4752.9	4547.1	4552.2	4632.0	4711.8	4740.1
32.5°	6659.8	6703.5	6574.8	5784.8	4938.2	4379.8	4222.8	4228.0	4297.5	4395.2	4421.0
35°	6832.2	6958.3	6716.4	5568.7	4547.1	4065.9	3947.5	3878.0	3880.6	3955.2	3975.8
37.5°	7068.9	7303.1	6798.7	5247.0	4130.2	3798.2	3664.4	3543.5	3463.7	3432.8	3432.8
40°	7480.7	7825.5	6819.3	4770.9	3736.5	3543.5	3353.0	3208.9	3054.5	2915.6	2889.8
42.5°	8178.0	8612.9	6778.1	4222.8	3381.3	3263.0	3077.7	2900.1	2686.6	2491.0	2475.5
45°	9413.2	9637.1	6667.5	3654.1	3064.8	2992.8	2812.6	2619.6	2393.2	2218.2	2205.3
47.5°	11392.1	11075.6	6520.8	3149.7	2776.6	2756.0	2617.1	2393.2	2166.7	2045.8	2032.9
50°	14282.0	13340.1	6500.2	2784.3	2545.0	2555.3	2442.1	2236.2	2038.1	1937.7	1922.3
52.5°	17761.1	16075.6	6636.6	2527.0	2341.7	2380.3	2323.7	2133.3	1958.3	1873.4	1857.9
55°	21137.3	18535.7	6719.0	2326.3	2151.3	2223.4	2231.1	2071.5	1912.0	1827.1	1816.8
57.5°	23877.9	20388.5	6353.5	2143.6	1986.6	2097.3	2153.9	2035.5	1888.8	1824.5	1814.2
60°	25784.7	21263.4	5313.9	1981.5	1865.7	1996.9	2125.6	2038.1	1945.4	1953.2	1958.3
62.5°	26392.0	20874.8	3986.1	1860.5	1783.3	1963.4	2171.9	2143.6	2048.4	2107.6	2117.8
65°	25385.8	19269.1	2889.8	1765.3	1711.3	1986.6	2310.8	2220.8	2012.3	2056.1	2056.1
67.5°	22017.4	16600.5	2249.1	1677.8	1628.9	2030.4	2449.8	2213.1	1927.4	1978.9	1932.6
70°	17465.2	12840.9	1873.4	1580.0	1541.4	1966.0	2462.7	2133.3	1827.1	1837.4	1749.9
72.5°	11590.3	8443.1	1610.9	1487.4	1407.6	1767.9	2357.2	2030.4	1729.3	1670.1	1582.6
75°	5679.3	4210.0	1405.0	1371.6	1232.6	1538.8	2213.1	1932.6	1623.8	1531.1	1482.2
77.5°	2200.2	1791.0	1199.2	1224.9	1073.1	1356.1	2022.6	1793.6	1484.8	1358.7	1320.1
80°	1067.9	1016.5	983.0	1021.6	882.7	1155.4	1847.6	1672.7	1356.1	1217.2	1160.6
82.5°	663.9	627.9	754.0	795.2	679.4	1055.1	1752.4	1569.7	1194.0	1008.7	962.4
85°	337.1	360.3	504.4	543.0	486.4	838.9	1443.6	1178.6	862.1	715.4	720.5
87.5°	128.7	172.4	265.1	285.6	259.9	442.6	795.2	687.1	553.3	375.7	347.4
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)