

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: P648122

Luminaire Tested: **GALN-SA8A-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24652 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

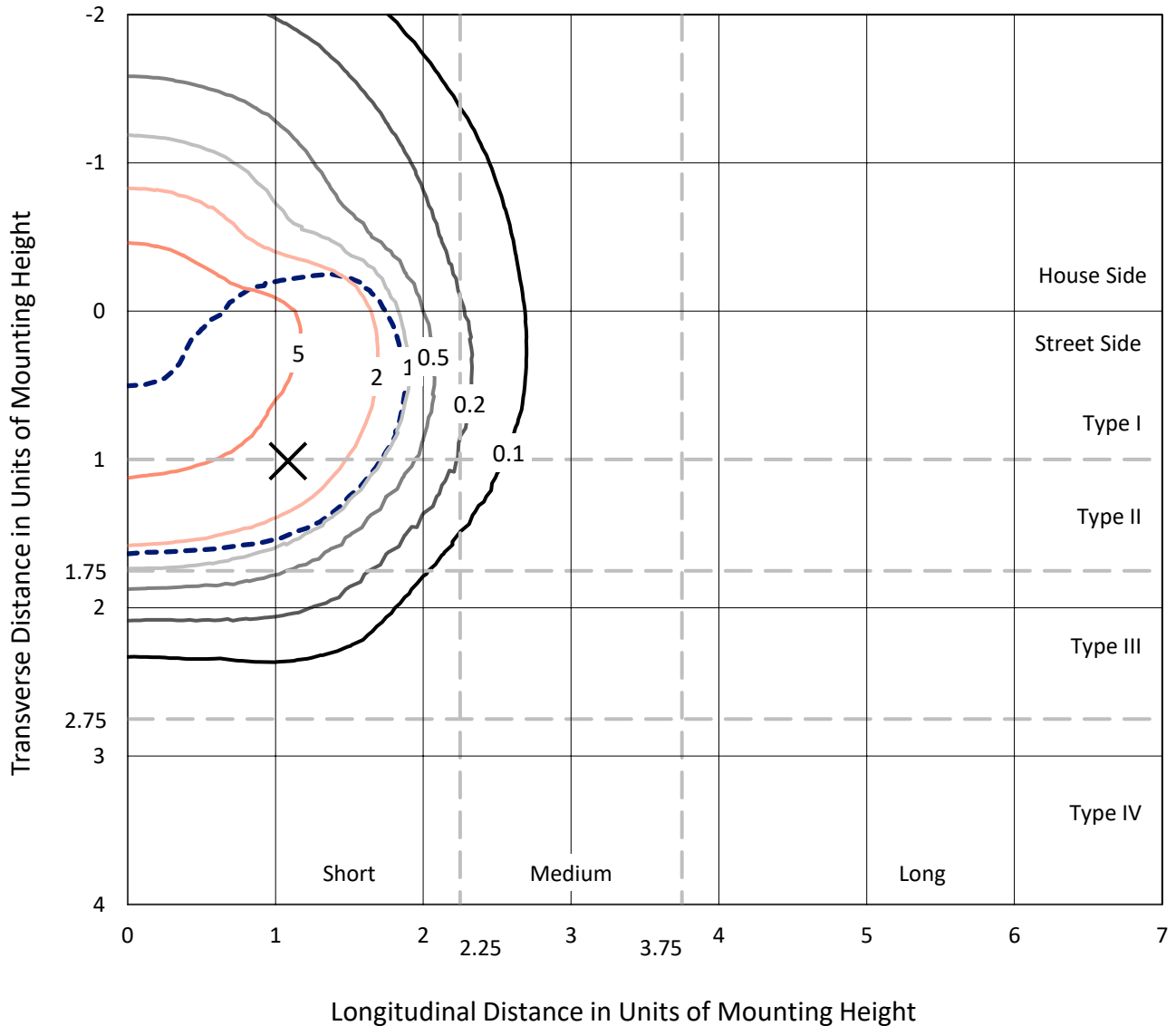
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648122
 CATALOG NUMBER: GALN-SA8A-835-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

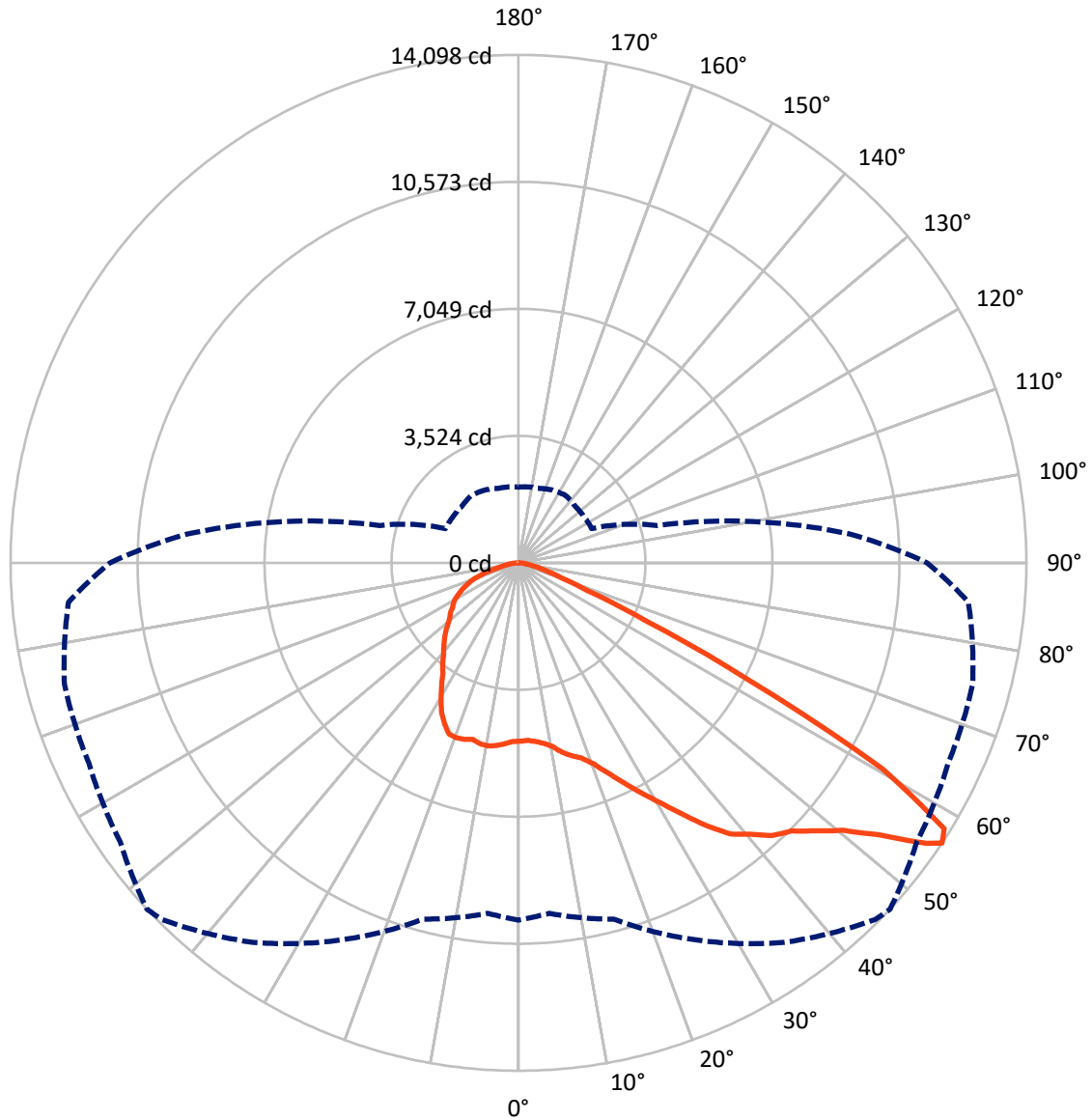
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

REPORT NUMBER: P648122
CATALOG NUMBER: GALN-SA8A-835-U-T3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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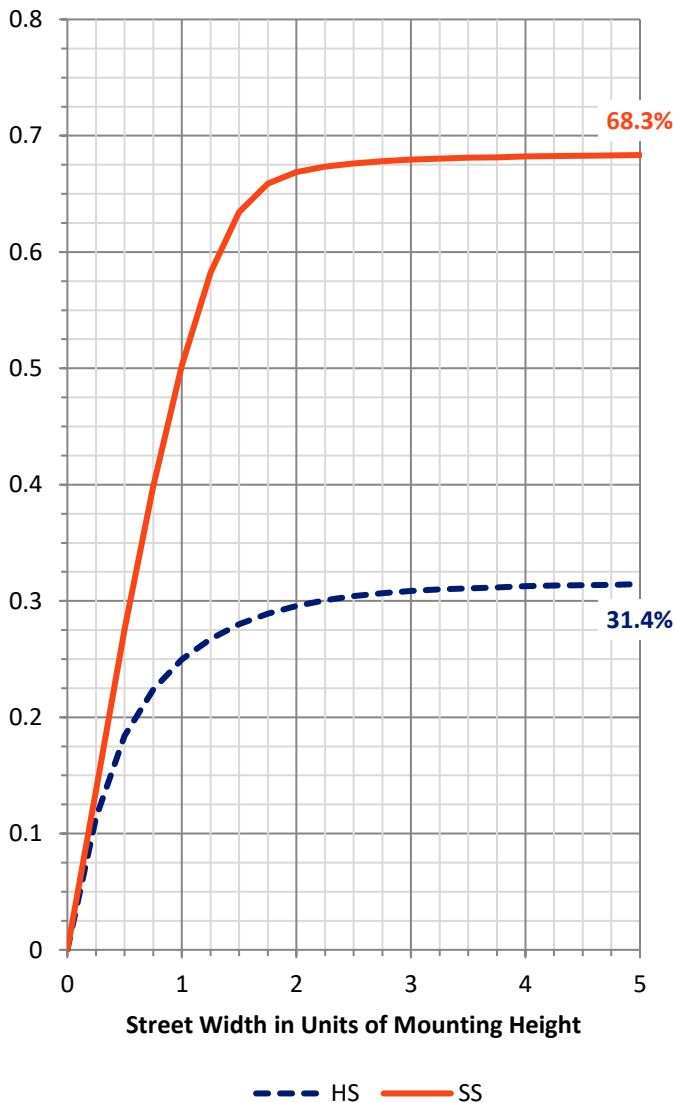
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7811.9	0.0	7811.9
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	16840.1	0.0	16840.1
	% Fixture	68.3	0.0	68.3
Total	Lumens	24652.0	0.0	24652.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.5	2.0
10°-20°	1522.0	6.2
20°-30°	2690.5	10.9
30°-40°	4041.1	16.4
40°-50°	5546.0	22.5
50°-60°	6607.4	26.8
60°-70°	2827.6	11.5
70°-80°	800.2	3.2
80°-90°	134.7	0.5
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°	24652.0	100.0
0°-180°	24652.0	100.0

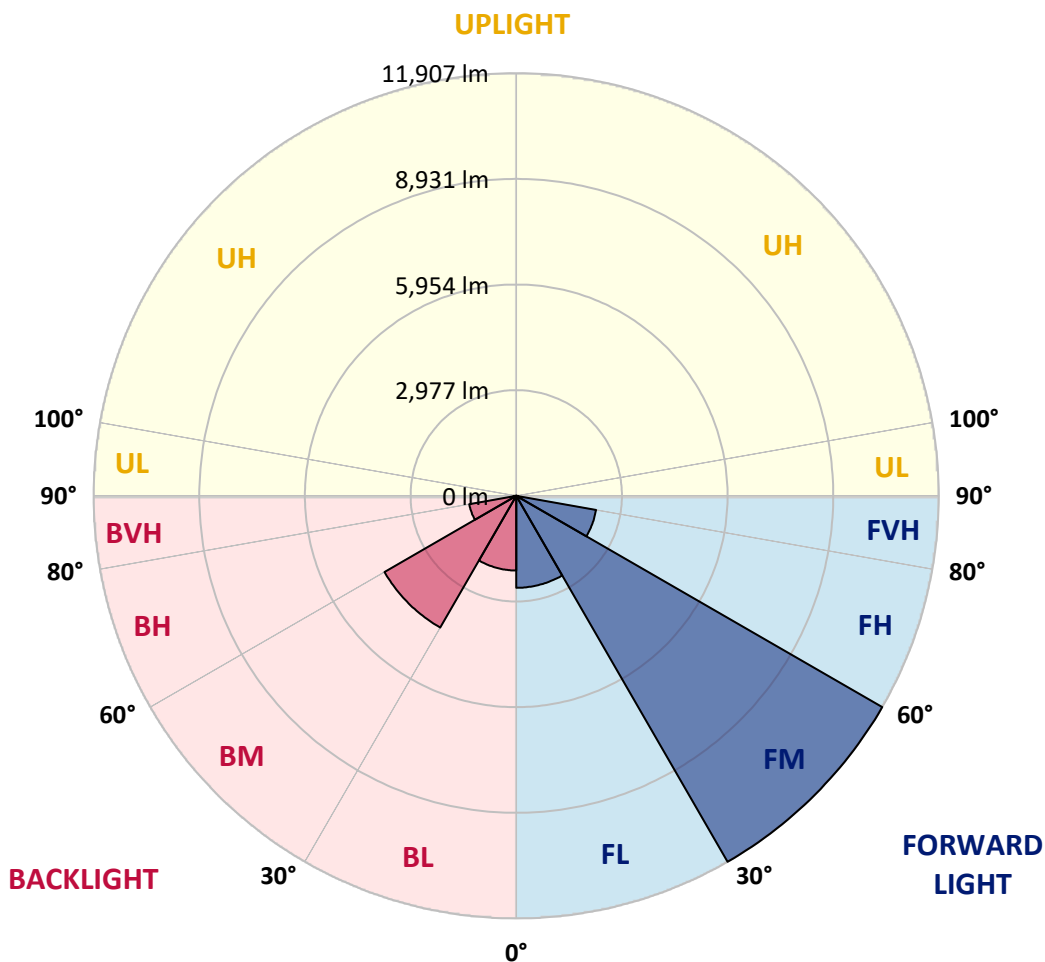


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2591.8	10.5			
FM (30°-60°)	11907.5	48.3			
FH (60°-80°)	2283.7	9.3			G2/5000
FVH (80°-90°)	57.2	0.2			G1/100
BL (0°-30°)	2103.3	8.5	B3/2500		
BM (30°-60°)	4287.0	17.4	B3/5000		
BH (60°-80°)	1344.1	5.5	B3/2500		G3/2500
BVH (80°-90°)	77.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CATALOG NUMBER: GALN-SA8A-835-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4951.8	4951.8	4951.8	4951.8	4951.8	4951.8	4951.8	4951.8	4951.8	4951.8	4951.8
2.5°	4933.0	4923.5	4917.2	4967.6	4948.7	4951.8	4933.0	4951.8	4964.4	4936.1	4977.0
5°	4923.5	4951.8	4926.7	4942.4	4983.2	4970.7	4983.2	5021.0	5011.6	5002.1	4989.6
7.5°	5011.6	5014.7	5033.6	5039.9	5052.5	5039.9	5058.7	5093.3	5083.9	5030.5	5036.7
10°	5137.3	5143.6	5146.7	5181.3	5203.3	5206.5	5184.5	5153.1	5149.9	5222.2	5171.9
12.5°	5282.0	5266.2	5304.0	5316.6	5341.7	5370.0	5398.3	5332.2	5373.1	5376.3	5316.6
15°	5492.6	5508.3	5464.3	5464.3	5473.7	5476.9	5555.5	5524.1	5517.7	5483.2	5508.3
17.5°	5807.0	5700.1	5697.0	5652.9	5646.7	5671.8	5700.1	5725.3	5810.2	5741.0	5605.8
20°	6036.5	6061.7	5970.5	5917.1	5926.4	5983.1	5954.8	6067.9	6127.7	6014.5	5882.4
22.5°	6442.1	6357.2	6379.2	6259.8	6269.2	6328.9	6325.8	6442.1	6476.7	6297.4	6105.7
25°	6715.6	6693.6	6712.5	6618.2	6630.8	6677.9	6753.4	6945.1	6888.5	6690.5	6247.2
27.5°	7114.9	7070.9	7055.1	7020.6	7008.0	7133.8	7221.8	7426.2	7385.3	7096.0	6498.7
30°	7523.6	7495.3	7511.1	7369.6	7419.9	7687.1	7712.3	7992.1	7973.2	7463.9	6778.5
32.5°	7806.6	7822.3	7850.6	7772.0	7995.2	8209.1	8293.9	8611.4	8627.2	8095.8	7319.2
35°	8262.5	8209.1	8224.8	8315.9	8419.7	8809.5	8947.9	9158.5	9290.6	8759.3	7838.1
37.5°	8548.6	8605.2	8539.2	8683.8	8954.2	9422.6	9548.4	9765.3	9903.7	9413.2	8545.4
40°	8995.0	8903.9	8951.0	9054.8	9331.5	9941.4	9906.8	10130.1	10174.1	9969.7	9205.7
42.5°	9476.1	9432.1	9366.0	9601.9	9834.5	10277.8	10347.0	10243.2	10466.4	10513.6	10148.9
45°	10051.4	10104.8	10114.3	10120.6	10325.0	10711.7	10617.3	10526.2	10784.0	11126.7	10733.7
47.5°	10585.9	10416.2	10538.8	10708.5	10997.8	11000.9	11111.0	10894.0	11167.5	11472.5	11261.9
50°	10765.2	10683.4	10846.9	11167.5	11614.0	11661.1	11673.7	11365.6	11507.1	11749.2	11444.2
52.5°	10695.9	10667.7	11085.8	11582.6	12236.5	12475.5	12538.3	12158.0	12236.5	12126.5	11846.6
55°	10365.8	10450.7	10872.0	11884.4	12887.3	13626.2	13745.6	13264.6	12764.7	12849.6	12541.5
56°	9913.1	9765.3	10236.9	11541.7	12859.1	14000.4	14097.8	13497.3	13157.7	13047.7	12535.2
57.5°	8410.3	8218.4	8837.9	10384.7	12145.3	13858.9	13931.1	13594.8	13091.7	12868.4	11620.3
60°	4923.5	5017.9	5803.8	7162.1	9369.1	11362.5	11604.6	11849.8	11513.4	10513.6	8649.2
62.5°	2376.9	2317.1	2880.0	4106.1	5709.6	7253.2	7181.0	7869.5	8246.8	7470.2	5461.2
65°	1245.0	1238.7	1572.0	2241.7	3137.7	3810.5	3876.6	4247.5	4766.4	3848.3	2773.0
67.5°	914.9	940.1	1106.7	1575.2	2018.5	2059.4	2049.9	2235.4	2285.7	1933.5	1704.0
70°	716.8	729.4	852.1	1197.8	1502.8	1345.7	1317.3	1339.3	1487.2	1550.0	1474.5
72.5°	518.7	531.3	635.1	808.0	940.1	918.1	936.9	1059.6	1241.9	1307.9	1229.3
75°	345.9	355.2	411.9	493.6	556.5	600.5	635.1	776.6	946.3	984.1	946.3
77.5°	239.0	248.4	286.1	349.0	355.2	383.6	396.1	462.2	566.0	613.1	588.0
80°	135.2	135.2	154.1	179.2	220.1	257.8	264.1	317.6	364.7	396.1	402.5
82.5°	62.9	66.0	81.7	110.0	144.6	179.2	185.5	220.1	254.6	286.1	295.5
85°	31.5	34.6	47.1	66.0	88.0	106.9	103.7	106.9	113.2	106.9	110.0
87.5°	9.4	9.4	12.6	15.7	12.6	15.7	15.7	18.9	22.0	25.1	28.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P648122

CATALOG NUMBER: GALN-SA8A-835-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4951.8	4951.8	4951.8	4951.8	4951.8	4951.8	4951.8	4951.8	4951.8	4951.8	4951.8
2.5°	4980.1	4989.6	4926.7	4986.4	4964.4	4961.2	5005.2	4999.0	5014.7	5008.5	4970.7
5°	4983.2	4961.2	5027.3	4967.6	4995.9	5055.6	5014.7	5109.0	5061.9	5093.3	5024.1
7.5°	5080.7	5087.0	5074.5	5099.6	5087.0	5115.3	5093.3	5115.3	5077.6	5080.7	5143.6
10°	5165.6	5146.7	5168.7	5137.3	5159.3	5149.9	5099.6	5083.9	5096.5	5080.7	5121.6
12.5°	5322.8	5288.2	5272.5	5234.8	5209.6	5115.3	5036.7	4992.7	5052.5	5061.9	5043.0
15°	5483.2	5486.3	5414.0	5329.1	5171.9	5030.5	5049.3	5065.0	5065.0	5090.2	5043.0
17.5°	5583.8	5583.8	5517.7	5348.0	5187.6	5105.9	5087.0	5036.7	4992.7	4986.4	4983.2
20°	5759.8	5706.4	5555.5	5344.8	5181.3	5143.6	5002.1	4882.6	4791.5	4760.0	4756.9
22.5°	5961.1	5825.8	5615.2	5351.1	5171.9	5118.5	4854.4	4675.1	4511.6	4442.5	4451.9
25°	6146.6	5929.7	5649.8	5322.8	5137.3	4879.5	4584.0	4335.6	4165.8	4109.3	4080.9
27.5°	6275.4	6039.7	5649.8	5348.0	5008.5	4612.3	4310.4	3992.9	3845.2	3807.4	3813.7
30°	6448.4	6178.0	5747.3	5294.6	4750.6	4266.4	3904.9	3697.4	3609.3	3577.9	3599.9
32.5°	6854.0	6539.5	5882.4	5165.6	4445.6	3920.6	3628.2	3511.8	3383.0	3320.1	3298.1
35°	7294.1	6882.3	6014.5	4948.7	4102.9	3606.2	3423.8	3316.9	3162.9	3093.7	3106.3
37.5°	7916.7	7322.5	6023.9	4590.3	3731.9	3430.1	3263.5	3096.8	2971.1	2864.2	2832.7
40°	8756.1	7922.9	6001.9	4213.0	3433.3	3222.6	3100.0	2892.5	2751.0	2675.6	2691.2
42.5°	9495.0	8627.2	5910.8	3785.4	3162.9	3081.1	2942.8	2738.5	2600.1	2521.5	2515.2
45°	10117.5	9146.0	5737.8	3420.7	2936.5	2924.0	2763.6	2606.4	2496.4	2424.0	2455.5
47.5°	10692.8	9564.1	5476.9	3056.0	2729.0	2754.1	2600.1	2502.6	2433.5	2367.5	2364.3
50°	10900.3	9557.8	5247.4	2754.1	2562.4	2549.8	2543.5	2439.7	2367.5	2310.9	2336.0
52.5°	11246.2	9664.7	4999.0	2546.6	2411.5	2414.6	2436.6	2361.1	2279.4	2244.9	2276.3
55°	11742.9	9680.5	4451.9	2304.6	2285.7	2307.7	2307.7	2257.4	2188.3	2159.9	2144.2
56°	11337.4	9212.0	3992.9	2241.7	2222.9	2222.9	2282.5	2226.0	2141.1	2119.0	2100.2
57.5°	10457.0	8070.7	3342.1	2166.2	2137.9	2182.0	2213.4	2153.6	2075.0	2043.6	2062.5
60°	7212.4	5461.2	2512.1	2002.8	2002.8	2075.0	2100.2	2012.2	1977.6	1974.4	1949.3
62.5°	4209.9	3181.7	1965.0	1855.0	1861.3	1921.0	1939.9	1889.5	1845.5	1899.0	1924.1
65°	2232.3	1899.0	1685.2	1697.8	1700.9	1748.0	1829.8	1826.7	1823.5	1839.3	1842.4
67.5°	1616.0	1578.3	1531.2	1518.6	1524.8	1559.4	1641.2	1704.0	1700.9	1663.2	1634.9
70°	1439.9	1386.5	1358.2	1361.3	1336.2	1377.1	1443.1	1483.9	1411.7	1367.7	1348.8
72.5°	1197.8	1182.2	1163.3	1166.4	1116.1	1106.7	1031.2	1031.2	1012.3	999.8	1021.8
75°	914.9	908.6	918.1	902.3	848.9	792.3	748.3	707.4	644.5	619.4	606.8
77.5°	578.5	597.4	619.4	584.8	562.7	521.9	477.9	437.0	386.7	358.5	358.5
80°	393.0	408.7	424.5	418.1	393.0	355.2	320.7	276.7	242.1	220.1	217.0
82.5°	298.7	311.2	333.2	308.1	283.0	251.5	223.2	191.8	160.4	135.2	135.2
85°	106.9	122.6	135.2	147.8	157.2	160.4	138.4	113.2	91.1	72.3	69.1
87.5°	28.3	31.5	34.6	31.5	31.5	31.5	34.6	31.5	28.3	22.0	22.0
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)