

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: P530142

Luminaire Tested: **GALN-SA5B-750-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530142
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-SA5B-750-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 800mA 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: 24295 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

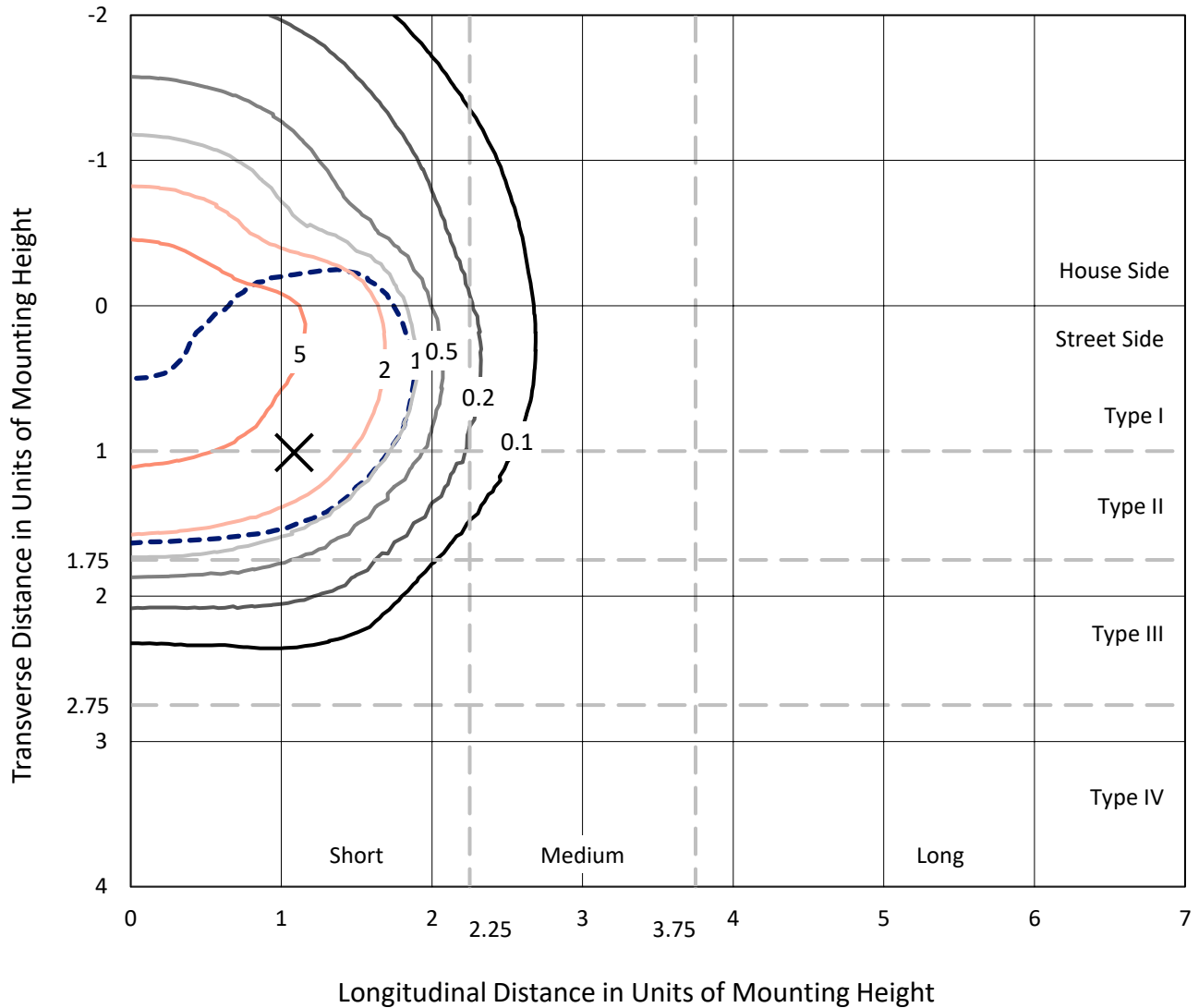
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

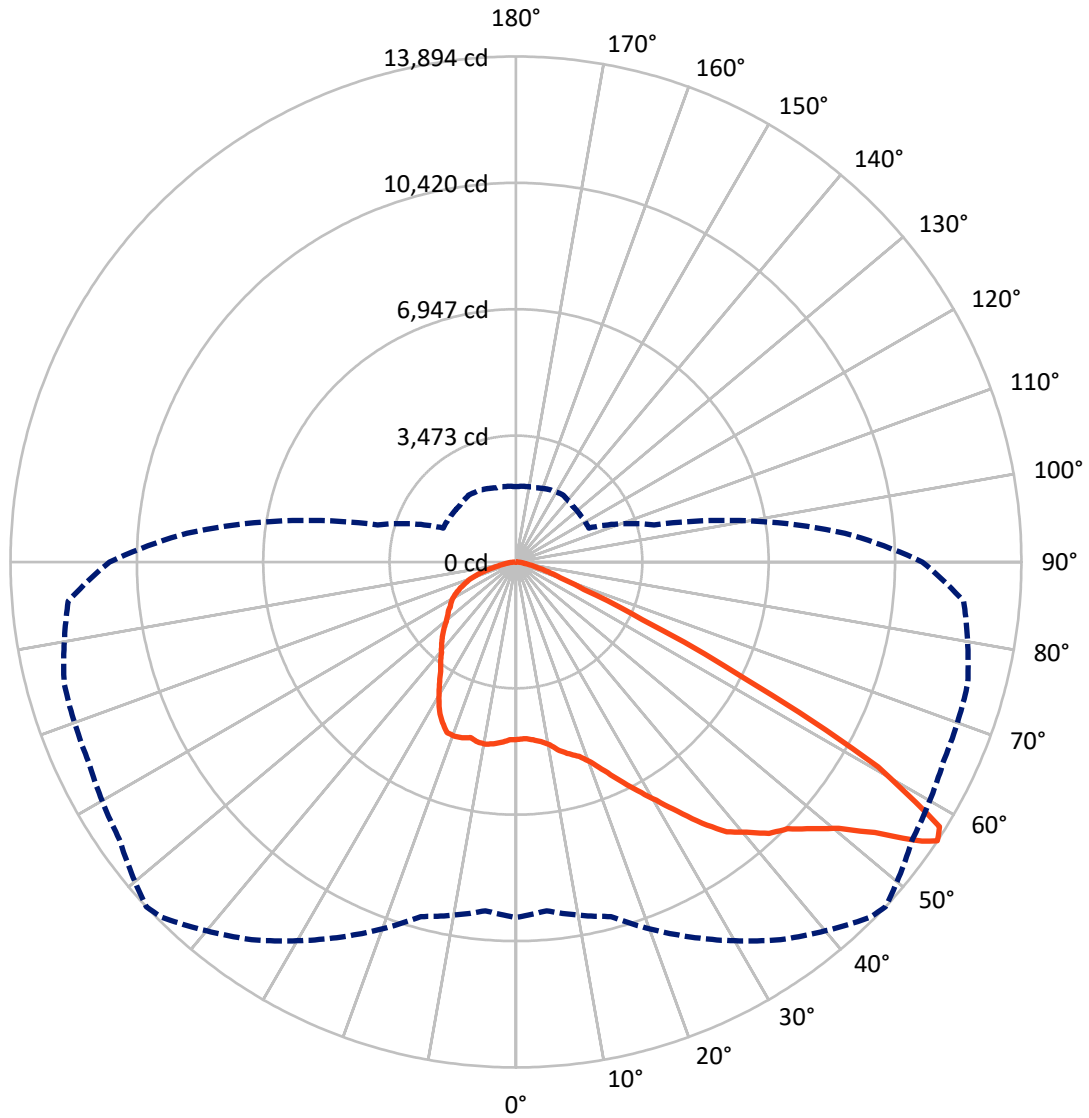
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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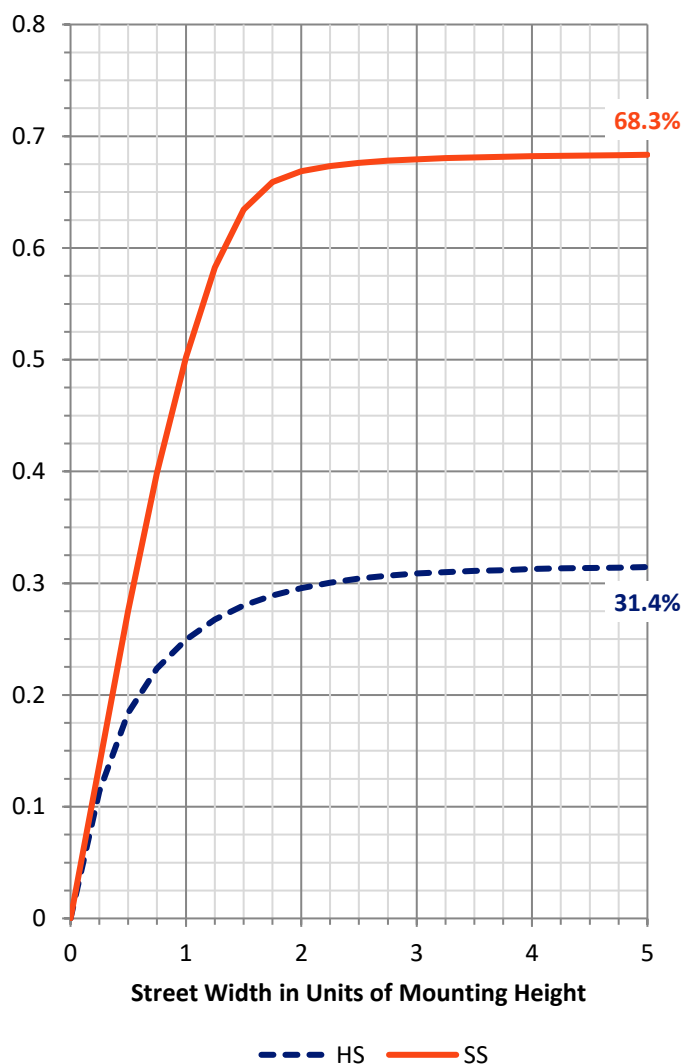
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7698.8	0.0	7698.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	16596.2	0.0	16596.2
	% Fixture	68.3	0.0	68.3
Total	Lumens	24295.0	0.0	24295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.5	2.0
10°-20°	1500.0	6.2
20°-30°	2651.6	10.9
30°-40°	3982.6	16.4
40°-50°	5465.7	22.5
50°-60°	6511.7	26.8
60°-70°	2786.6	11.5
70°-80°	788.6	3.2
80°-90°	132.7	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°	24295.0	100.0
0°-180°	24295.0	100.0

Coefficient of Utilization



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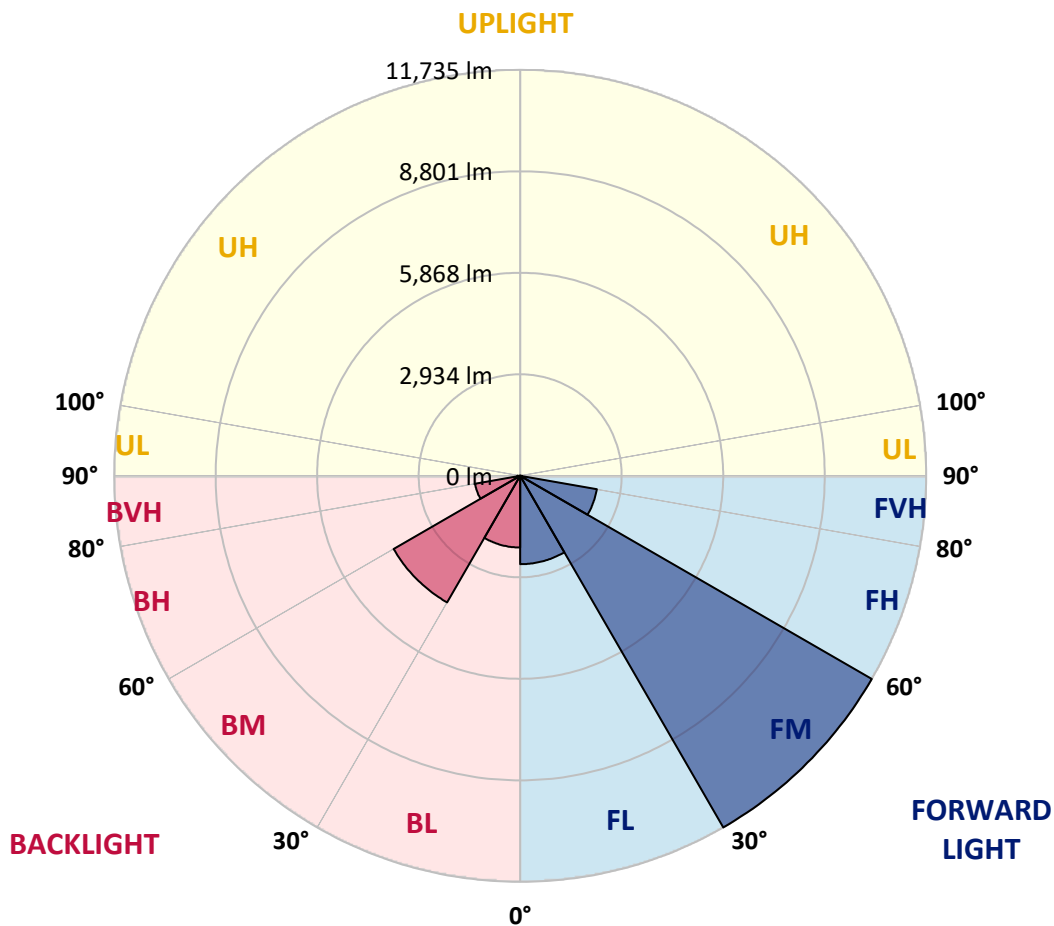
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2554.2	10.5			
FM (30°-60°)	11735.0	48.3			
FH (60°-80°)	2250.6	9.3			G2/5000
FVH (80°-90°)	56.3	0.2			G1/100
BL (0°-30°)	2072.8	8.5	B3/2500		
BM (30°-60°)	4225.0	17.4	B3/5000		
BH (60°-80°)	1324.6	5.5	B3/2500		G3/2500
BVH (80°-90°)	76.4	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1
2.5°	4861.5	4852.2	4846.0	4895.6	4877.0	4880.1	4861.5	4880.1	4892.5	4864.6	4904.9
5°	4852.2	4880.1	4855.3	4870.8	4911.1	4898.7	4911.1	4948.3	4939.0	4929.7	4917.3
7.5°	4939.0	4942.1	4960.7	4966.9	4979.3	4966.9	4985.5	5019.6	5010.3	4957.6	4963.8
10°	5062.9	5069.1	5072.2	5106.3	5128.0	5131.1	5109.4	5078.4	5075.3	5146.6	5097.0
12.5°	5205.5	5190.0	5227.2	5239.6	5264.3	5292.2	5320.1	5255.0	5295.3	5298.4	5239.6
15°	5413.1	5428.6	5385.2	5385.2	5394.5	5397.6	5475.0	5444.1	5437.9	5403.8	5428.6
17.5°	5722.9	5617.6	5614.5	5571.1	5564.9	5589.7	5617.6	5642.4	5726.0	5657.8	5524.6
20°	5949.1	5973.9	5884.0	5831.4	5840.7	5896.4	5868.5	5980.1	6039.0	5927.4	5797.3
22.5°	6348.8	6265.2	6286.8	6169.1	6178.4	6237.3	6234.2	6348.8	6382.9	6206.3	6017.3
25°	6618.4	6596.7	6615.3	6522.3	6534.7	6581.2	6655.6	6844.6	6788.8	6593.6	6156.7
27.5°	7011.9	6968.5	6953.0	6918.9	6906.5	7030.5	7117.2	7318.6	7278.4	6993.3	6404.6
30°	7414.7	7386.8	7402.3	7262.9	7312.4	7575.8	7600.6	7876.4	7857.8	7355.8	6680.4
32.5°	7693.6	7709.1	7736.9	7659.5	7879.5	8090.2	8173.8	8486.8	8502.3	7978.6	7213.3
35°	8142.8	8090.2	8105.7	8195.5	8297.8	8682.0	8818.3	9025.9	9156.0	8632.4	7724.5
37.5°	8424.8	8480.6	8415.5	8558.0	8824.5	9286.2	9410.1	9623.9	9760.3	9276.9	8421.7
40°	8864.8	8774.9	8821.4	8923.7	9196.3	9797.4	9763.4	9983.3	10026.7	9825.3	9072.4
42.5°	9338.9	9295.5	9230.4	9462.8	9692.1	10129.0	10197.1	10094.9	10314.9	10361.4	10001.9
45°	9905.9	9958.6	9967.9	9974.1	10175.5	10556.6	10463.6	10373.8	10627.8	10965.6	10578.3
47.5°	10432.6	10265.3	10386.2	10553.5	10838.5	10841.6	10950.1	10736.3	11005.8	11306.4	11098.8
50°	10609.2	10528.7	10689.8	11005.8	11445.8	11492.3	11504.7	11201.1	11340.5	11579.1	11278.5
52.5°	10541.1	10513.2	10925.3	11414.9	12059.3	12294.8	12356.8	11981.9	12059.3	11950.9	11675.1
55°	10215.7	10299.4	10714.6	11712.3	12700.7	13428.9	13546.6	13072.5	12579.9	12663.5	12359.9
56°	9769.6	9623.9	10088.7	11374.6	12672.8	13797.6	13893.6	13301.8	12967.2	12858.7	12353.7
57.5°	8288.5	8099.5	8709.9	10234.3	11969.5	13658.2	13729.4	13397.9	12902.1	12682.1	11452.0
60°	4852.2	4945.2	5719.8	7058.4	9233.5	11198.0	11436.5	11678.2	11346.7	10361.4	8524.0
62.5°	2342.5	2283.6	2838.2	4046.6	5626.9	7148.2	7077.0	7755.5	8127.3	7362.0	5382.1
65°	1227.0	1220.8	1549.2	2209.2	3092.3	3755.4	3820.4	4186.1	4697.3	3792.6	2732.9
67.5°	901.7	926.4	1090.7	1552.3	1989.2	2029.5	2020.2	2203.0	2252.6	1905.6	1679.4
70°	706.5	718.9	839.7	1180.5	1481.1	1326.2	1298.3	1320.0	1465.6	1527.6	1453.2
72.5°	511.3	523.6	625.9	796.3	926.4	904.8	923.4	1044.2	1223.9	1289.0	1211.5
75°	340.8	350.1	405.9	486.5	548.4	591.8	625.9	765.3	932.6	969.8	932.6
77.5°	235.5	244.8	282.0	343.9	350.1	378.0	390.4	455.5	557.7	604.2	579.4
80°	133.2	133.2	151.8	176.6	216.9	254.1	260.3	312.9	359.4	390.4	396.6
82.5°	62.0	65.1	80.6	108.4	142.5	176.6	182.8	216.9	251.0	282.0	291.3
85°	31.0	34.1	46.5	65.1	86.8	105.3	102.3	105.3	111.5	105.3	108.4
87.5°	9.3	9.3	12.4	15.5	12.4	15.5	15.5	18.6	21.7	24.8	27.9
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°	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1	4880.1
2.5°	4908.0	4917.3	4855.3	4914.2	4892.5	4889.4	4932.8	4926.6	4942.1	4935.9	4898.7
5°	4911.1	4889.4	4954.5	4895.6	4923.5	4982.4	4942.1	5035.1	4988.6	5019.6	4951.4
7.5°	5007.2	5013.4	5001.0	5025.8	5013.4	5041.2	5019.6	5041.2	5004.1	5007.2	5069.1
10°	5090.8	5072.2	5093.9	5062.9	5084.6	5075.3	5025.8	5010.3	5022.7	5007.2	5047.4
12.5°	5245.7	5211.7	5196.2	5159.0	5134.2	5041.2	4963.8	4920.4	4979.3	4988.6	4970.0
15°	5403.8	5406.9	5335.6	5251.9	5097.0	4957.6	4976.2	4991.7	4991.7	5016.5	4970.0
17.5°	5502.9	5502.9	5437.9	5270.5	5112.5	5032.0	5013.4	4963.8	4920.4	4914.2	4911.1
20°	5676.4	5623.8	5475.0	5267.4	5106.3	5069.1	4929.7	4812.0	4722.1	4691.1	4688.0
22.5°	5874.7	5741.5	5533.9	5273.6	5097.0	5044.3	4784.1	4607.5	4446.3	4378.2	4387.5
25°	6057.6	5843.8	5568.0	5245.7	5062.9	4808.9	4517.6	4272.8	4105.5	4049.7	4021.8
27.5°	6184.6	5952.2	5568.0	5270.5	4935.9	4545.5	4248.0	3935.1	3789.5	3752.3	3758.5
30°	6355.0	6088.5	5664.0	5217.9	4681.8	4204.7	3848.3	3643.8	3557.1	3526.1	3547.8
32.5°	6754.7	6444.9	5797.3	5090.8	4381.3	3863.8	3575.7	3461.0	3334.0	3272.0	3250.3
35°	7188.5	6782.6	5927.4	4877.0	4043.5	3554.0	3374.3	3268.9	3117.1	3048.9	3061.3
37.5°	7802.0	7216.4	5936.7	4523.8	3677.9	3380.5	3216.2	3052.0	2928.1	2822.7	2791.7
40°	8629.3	7808.2	5915.0	4152.0	3383.6	3176.0	3055.1	2850.6	2711.2	2636.8	2652.3
42.5°	9357.5	8502.3	5825.2	3730.6	3117.1	3036.5	2900.2	2698.8	2562.5	2485.0	2478.8
45°	9971.0	9013.5	5654.8	3371.2	2894.0	2881.6	2723.6	2568.7	2460.2	2388.9	2419.9
47.5°	10538.0	9425.6	5397.6	3011.7	2689.5	2714.3	2562.5	2466.4	2398.2	2333.2	2330.1
50°	10742.5	9419.4	5171.4	2714.3	2525.3	2512.9	2506.7	2404.4	2333.2	2277.4	2302.2
52.5°	11083.3	9524.8	4926.6	2509.8	2376.5	2379.6	2401.3	2327.0	2246.4	2212.3	2243.3
55°	11572.9	9540.3	4387.5	2271.2	2252.6	2274.3	2274.3	2224.7	2156.6	2128.7	2113.2
56°	11173.2	9078.6	3935.1	2209.2	2190.6	2190.6	2249.5	2193.7	2110.1	2088.4	2069.8
57.5°	10305.6	7953.8	3293.7	2134.9	2107.0	2150.4	2181.3	2122.5	2045.0	2014.0	2032.6
60°	7107.9	5382.1	2475.7	1973.7	1973.7	2045.0	2069.8	1983.0	1949.0	1945.9	1921.1
62.5°	4148.9	3135.7	1936.6	1828.1	1834.3	1893.2	1911.8	1862.2	1818.8	1871.5	1896.3
65°	2199.9	1871.5	1660.8	1673.2	1676.3	1722.8	1803.3	1800.2	1797.1	1812.6	1815.7
67.5°	1592.6	1555.4	1509.0	1496.6	1502.8	1536.9	1617.4	1679.4	1676.3	1639.1	1611.2
70°	1419.1	1366.4	1338.5	1341.6	1316.9	1357.1	1422.2	1462.5	1391.2	1347.8	1329.3
72.5°	1180.5	1165.0	1146.4	1149.5	1100.0	1090.7	1016.3	1016.3	997.7	985.3	1007.0
75°	901.7	895.5	904.8	889.3	836.6	780.8	737.4	697.2	635.2	610.4	598.0
77.5°	570.1	588.7	610.4	576.3	554.6	514.3	471.0	430.7	381.1	353.2	353.2
80°	387.3	402.8	418.3	412.1	387.3	350.1	316.0	272.7	238.6	216.9	213.8
82.5°	294.4	306.8	328.4	303.7	278.9	247.9	220.0	189.0	158.0	133.2	133.2
85°	105.3	120.8	133.2	145.6	154.9	158.0	136.3	111.5	89.9	71.3	68.2
87.5°	27.9	31.0	34.1	31.0	31.0	31.0	34.1	31.0	27.9	21.7	21.7
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)