

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: P533548

Luminaire Tested: **GALN-SA9A-727-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533548
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-SA9A-727-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 29560 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

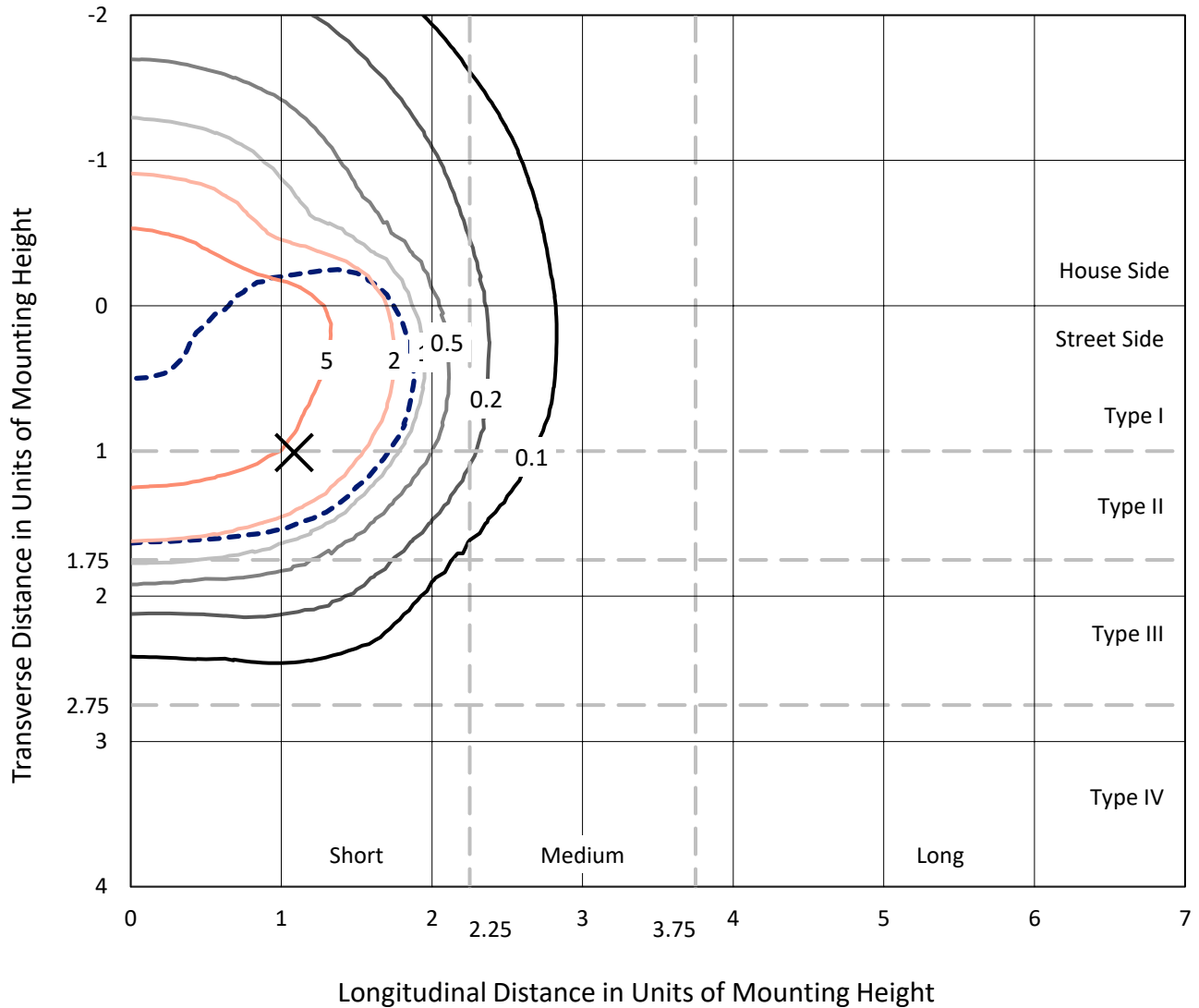
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

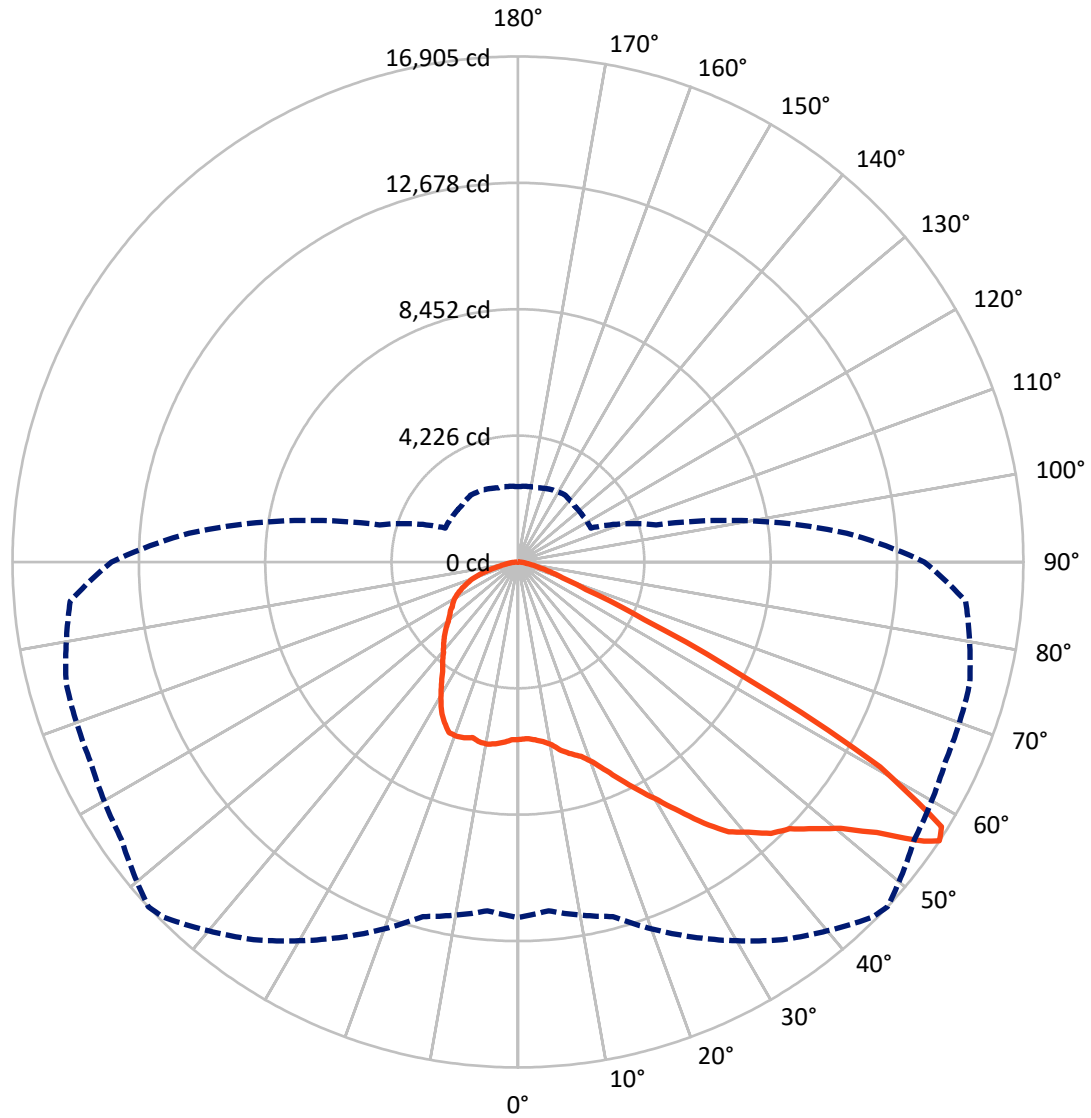
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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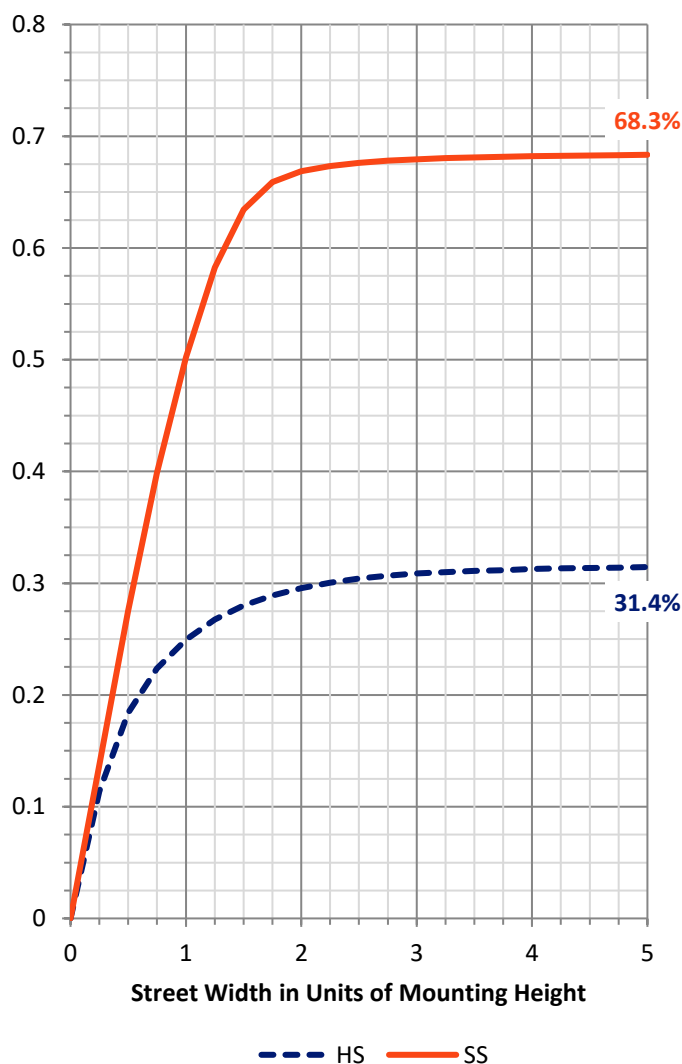
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9367.2	0.0	9367.2
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	20192.8	0.0	20192.8
	% Fixture	68.3	0.0	68.3
Total	Lumens	29560.0	0.0	29560.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.6	2.0
10°-20°	1825.0	6.2
20°-30°	3226.2	10.9
30°-40°	4845.7	16.4
40°-50°	6650.2	22.5
50°-60°	7922.8	26.8
60°-70°	3390.5	11.5
70°-80°	959.5	3.2
80°-90°	161.5	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°	29560.0	100.0
0°-180°	29560.0	100.0

Coefficient of Utilization



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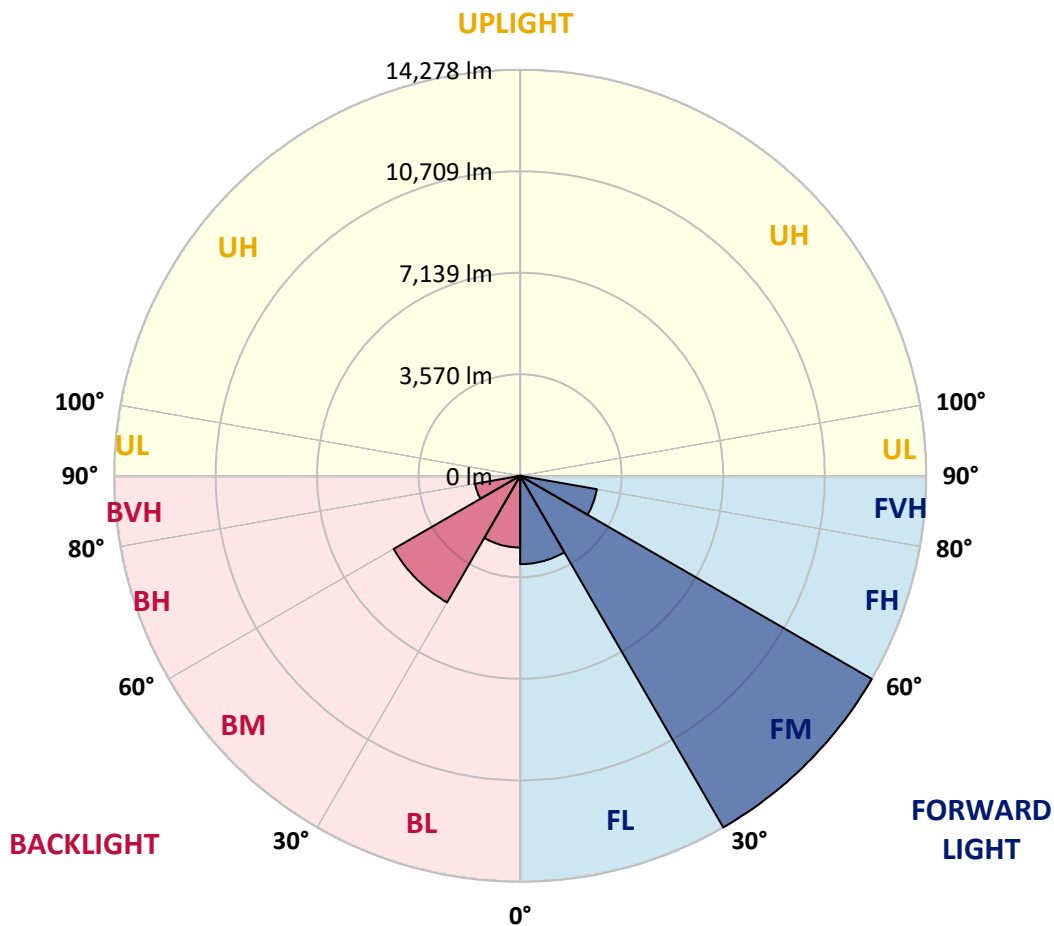
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3107.8	10.5			
FM (30°-60°)	14278.2	48.3			
FH (60°-80°)	2738.3	9.3			G2/5000
FVH (80°-90°)	68.5	0.2			G1/100
BL (0°-30°)	2522.0	8.5	B4/5000		
BM (30°-60°)	5140.6	17.4	B4/8500		
BH (60°-80°)	1611.7	5.5	B3/2500		G3/2500
BVH (80°-90°)	92.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5937.7	5937.7	5937.7	5937.7	5937.7	5937.7	5937.7	5937.7	5937.7	5937.7	5937.7
2.5°	5915.1	5903.8	5896.2	5956.6	5933.9	5937.7	5915.1	5937.7	5952.8	5918.9	5967.9
5°	5903.8	5937.7	5907.5	5926.4	5975.4	5960.3	5975.4	6020.6	6009.3	5998.0	5982.9
7.5°	6009.3	6013.1	6035.7	6043.3	6058.3	6043.3	6065.9	6107.4	6096.0	6032.0	6039.5
10°	6160.1	6167.7	6171.4	6212.9	6239.3	6243.1	6216.7	6179.0	6175.2	6261.9	6201.6
12.5°	6333.6	6314.7	6359.9	6375.0	6405.2	6439.1	6473.0	6393.9	6442.9	6446.7	6375.0
15°	6586.1	6605.0	6552.2	6552.2	6563.5	6567.3	6661.5	6623.8	6616.3	6574.8	6605.0
17.5°	6963.1	6835.0	6831.2	6778.4	6770.9	6801.0	6835.0	6865.1	6966.9	6884.0	6721.9
20°	7238.3	7268.5	7159.2	7095.1	7106.4	7174.3	7140.3	7276.0	7347.7	7212.0	7053.6
22.5°	7724.7	7622.9	7649.3	7506.0	7517.3	7589.0	7585.2	7724.7	7766.1	7551.3	7321.3
25°	8052.7	8026.3	8048.9	7935.8	7950.9	8007.4	8097.9	8327.9	8260.0	8022.5	7490.9
27.5°	8531.4	8478.7	8459.8	8418.3	8403.3	8554.1	8659.6	8904.7	8855.7	8508.8	7792.5
30°	9021.5	8987.6	9006.5	8836.8	8897.1	9217.6	9247.7	9583.3	9560.6	8949.9	8128.1
32.5°	9360.8	9379.7	9413.6	9319.4	9587.0	9843.4	9945.2	10326.0	10344.8	9707.7	8776.5
35°	9907.5	9843.4	9862.2	9971.6	10096.0	10563.5	10729.3	10981.9	11140.3	10503.1	9398.5
37.5°	10250.6	10318.4	10239.2	10412.7	10736.9	11298.6	11449.4	11709.5	11875.4	11287.3	10246.8
40°	10785.9	10676.6	10733.1	10857.5	11189.3	11920.7	11879.2	12146.8	12199.6	11954.6	11038.5
42.5°	11362.7	11309.9	11230.7	11513.5	11792.5	12324.0	12407.0	12282.6	12550.2	12606.8	12169.5
45°	12052.6	12116.7	12128.0	12135.5	12380.6	12844.3	12731.2	12621.9	12931.0	13341.9	12870.7
47.5°	12693.5	12489.9	12636.9	12840.5	13187.4	13191.1	13323.1	13063.0	13390.9	13756.6	13504.0
50°	12908.4	12810.4	13006.4	13390.9	13926.3	13982.8	13997.9	13628.4	13798.1	14088.4	13722.7
52.5°	12825.4	12791.5	13292.9	13888.6	14672.7	14959.2	15034.6	14578.5	14672.7	14540.8	14205.3
55°	12429.6	12531.4	13036.6	14250.5	15453.1	16339.1	16482.3	15905.5	15306.1	15407.9	15038.4
56°	11886.7	11709.5	12275.0	13839.6	15419.2	16787.7	16904.6	16184.5	15777.3	15645.4	15030.9
57.5°	10084.7	9854.7	10597.4	12452.2	14563.4	16618.0	16704.7	16301.4	15698.2	15430.5	13933.8
60°	5903.8	6016.9	6959.4	8588.0	11234.5	13624.7	13915.0	14209.0	13805.6	12606.8	10371.2
62.5°	2850.1	2778.5	3453.3	4923.6	6846.3	8697.3	8610.6	9436.2	9888.6	8957.5	6548.4
65°	1492.9	1485.4	1885.0	2688.0	3762.4	4569.2	4648.4	5093.2	5715.3	4614.4	3325.1
67.5°	1097.1	1127.2	1327.0	1888.8	2420.3	2469.3	2458.0	2680.5	2740.8	2318.5	2043.3
70°	859.6	874.6	1021.7	1436.4	1802.0	1613.5	1579.6	1606.0	1783.2	1858.6	1768.1
72.5°	622.0	637.1	761.5	968.9	1127.2	1100.8	1123.5	1270.5	1489.1	1568.3	1474.1
75°	414.7	426.0	493.9	591.9	667.3	720.1	761.5	931.2	1134.8	1180.0	1134.8
77.5°	286.5	297.8	343.1	418.5	426.0	459.9	475.0	554.2	678.6	735.1	705.0
80°	162.1	162.1	184.7	214.9	263.9	309.1	316.7	380.8	437.3	475.0	482.6
82.5°	75.4	79.2	98.0	131.9	173.4	214.9	222.4	263.9	305.4	343.1	354.4
85°	37.7	41.5	56.5	79.2	105.6	128.2	124.4	128.2	135.7	128.2	131.9
87.5°	11.3	11.3	15.1	18.8	15.1	18.8	18.8	22.6	26.4	30.2	33.9
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°	5937.7	5937.7	5937.7	5937.7	5937.7	5937.7	5937.7	5937.7	5937.7	5937.7	5937.7
2.5°	5971.6	5982.9	5907.5	5979.2	5952.8	5949.0	6001.8	5994.3	6013.1	6005.6	5960.3
5°	5975.4	5949.0	6028.2	5956.6	5990.5	6062.1	6013.1	6126.2	6069.7	6107.4	6024.4
7.5°	6092.3	6099.8	6084.7	6114.9	6099.8	6133.7	6107.4	6133.7	6088.5	6092.3	6167.7
10°	6194.1	6171.4	6197.8	6160.1	6186.5	6175.2	6114.9	6096.0	6111.1	6092.3	6141.3
12.5°	6382.6	6341.1	6322.2	6277.0	6246.8	6133.7	6039.5	5986.7	6058.3	6069.7	6047.0
15°	6574.8	6578.6	6491.9	6390.1	6201.6	6032.0	6054.6	6073.4	6073.4	6103.6	6047.0
17.5°	6695.5	6695.5	6616.3	6412.7	6220.5	6122.4	6099.8	6039.5	5986.7	5979.2	5975.4
20°	6906.6	6842.5	6661.5	6409.0	6212.9	6167.7	5998.0	5854.8	5745.4	5707.7	5704.0
22.5°	7147.9	6985.8	6733.2	6416.5	6201.6	6137.5	5820.8	5605.9	5409.9	5327.0	5338.3
25°	7370.3	7110.2	6774.6	6382.6	6160.1	5851.0	5496.6	5198.8	4995.2	4927.4	4893.4
27.5°	7524.9	7242.1	6774.6	6412.7	6005.6	5530.5	5168.6	4787.9	4610.7	4565.4	4573.0
30°	7732.2	7408.0	6891.5	6348.6	5696.4	5115.9	4682.3	4433.5	4327.9	4290.2	4316.6
32.5°	8218.5	7841.5	7053.6	6194.1	5330.7	4701.2	4350.5	4211.1	4056.5	3981.1	3954.7
35°	8746.3	8252.5	7212.0	5933.9	4919.8	4324.2	4105.5	3977.3	3792.6	3709.7	3724.7
37.5°	9492.8	8780.3	7223.3	5504.2	4475.0	4113.0	3913.2	3713.4	3562.6	3434.4	3396.7
40°	10499.4	9500.3	7196.9	5051.8	4116.8	3864.2	3717.2	3468.4	3298.7	3208.2	3227.1
42.5°	11385.3	10344.8	7087.5	4539.0	3792.6	3694.6	3528.7	3283.6	3117.8	3023.5	3016.0
45°	12131.8	10966.8	6880.2	4101.7	3521.2	3506.1	3313.8	3125.3	2993.4	2906.6	2944.3
47.5°	12821.7	11468.3	6567.3	3664.4	3272.3	3302.5	3117.8	3000.9	2918.0	2838.8	2835.0
50°	13070.5	11460.7	6292.1	3302.5	3072.5	3057.4	3049.9	2925.5	2838.8	2770.9	2801.1
52.5°	13485.2	11588.9	5994.3	3053.7	2891.6	2895.3	2921.7	2831.2	2733.2	2691.8	2729.5
55°	14080.8	11607.7	5338.3	2763.4	2740.8	2767.2	2767.2	2706.8	2623.9	2590.0	2571.1
56°	13594.5	11046.0	4787.9	2688.0	2665.4	2665.4	2737.0	2669.1	2567.4	2541.0	2518.3
57.5°	12538.9	9677.5	4007.5	2597.5	2563.6	2616.4	2654.1	2582.4	2488.2	2450.5	2473.1
60°	8648.3	6548.4	3012.2	2401.5	2401.5	2488.2	2518.3	2412.8	2371.3	2367.5	2337.4
62.5°	5048.0	3815.2	2356.2	2224.3	2231.8	2303.5	2326.1	2265.8	2213.0	2277.1	2307.2
65°	2676.7	2277.1	2020.7	2035.8	2039.6	2096.1	2194.1	2190.4	2186.6	2205.4	2209.2
67.5°	1937.8	1892.5	1836.0	1820.9	1828.4	1869.9	1967.9	2043.3	2039.6	1994.3	1960.4
70°	1726.6	1662.6	1628.6	1632.4	1602.2	1651.2	1730.4	1779.4	1692.7	1639.9	1617.3
72.5°	1436.4	1417.5	1394.9	1398.7	1338.3	1327.0	1236.6	1236.6	1213.9	1198.9	1225.2
75°	1097.1	1089.5	1100.8	1082.0	1017.9	950.0	897.3	848.2	772.8	742.7	727.6
77.5°	693.7	716.3	742.7	701.2	674.8	625.8	573.0	524.0	463.7	429.8	429.8
80°	471.2	490.1	508.9	501.4	471.2	426.0	384.5	331.8	290.3	263.9	260.1
82.5°	358.1	373.2	399.6	369.5	339.3	301.6	267.7	230.0	192.3	162.1	162.1
85°	128.2	147.0	162.1	177.2	188.5	192.3	165.9	135.7	109.3	86.7	82.9
87.5°	33.9	37.7	41.5	37.7	37.7	37.7	41.5	37.7	33.9	26.4	26.4
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)