

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: P534084

Luminaire Tested: **GALN-SA9C-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-740-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53920 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

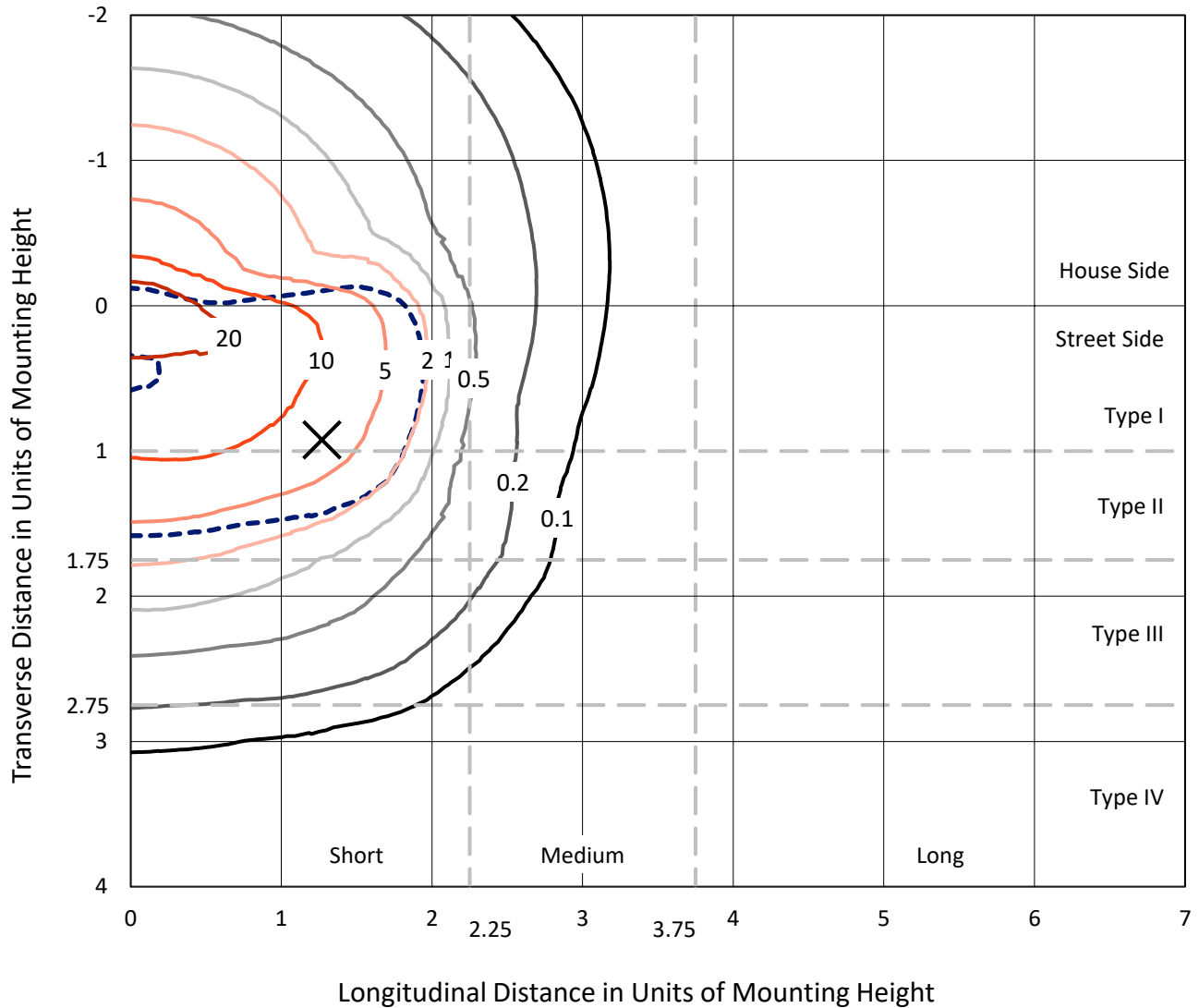
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

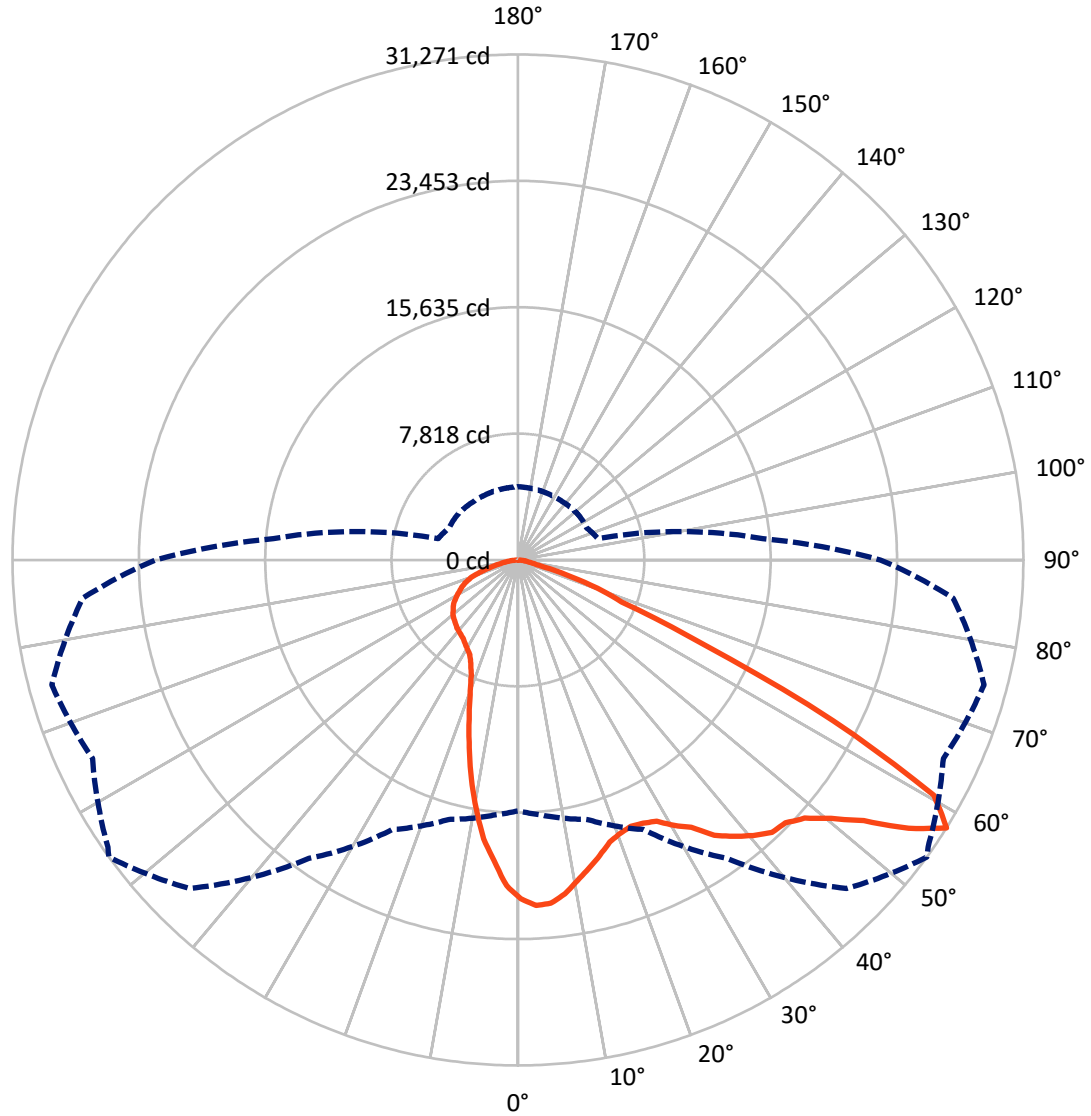
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 33.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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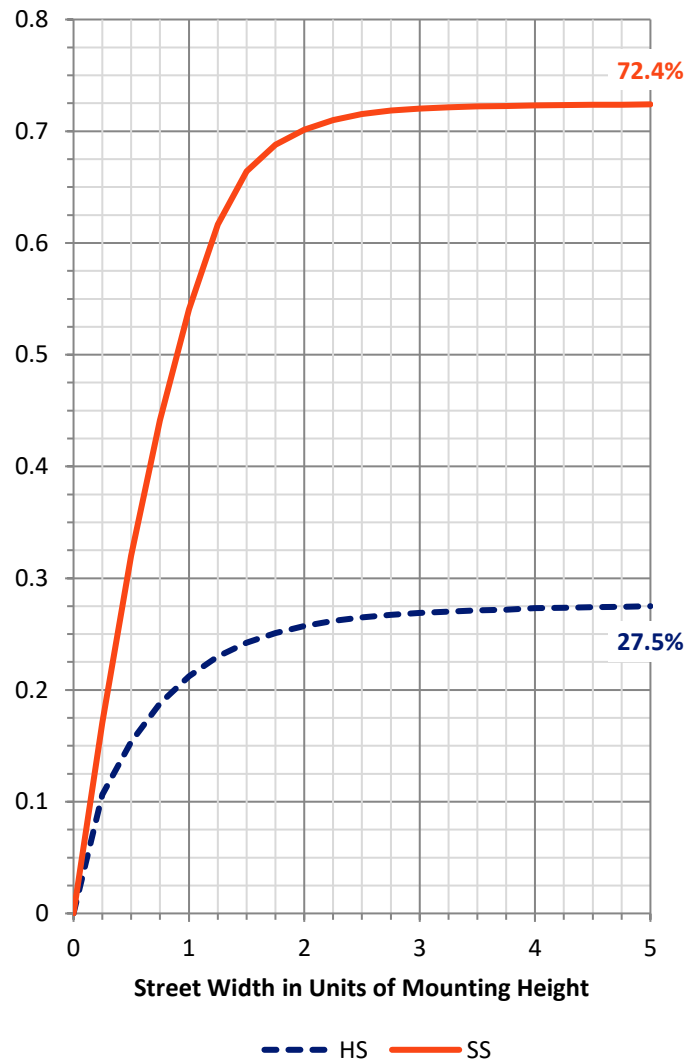
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14917.3	0.0	14917.3
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	39002.7	0.0	39002.7
	% Fixture	72.3	0.0	72.3
Total	Lumens	53920.0	0.0	53920.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1807.4	3.4
10°-20°	4184.9	7.8
20°-30°	5879.8	10.9
30°-40°	8220.0	15.2
40°-50°	11128.3	20.6
50°-60°	13554.8	25.1
60°-70°	7059.9	13.1
70°-80°	1809.0	3.4
80°-90°	275.9	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°	53920.0	100.0
0°-180°	53920.0	100.0



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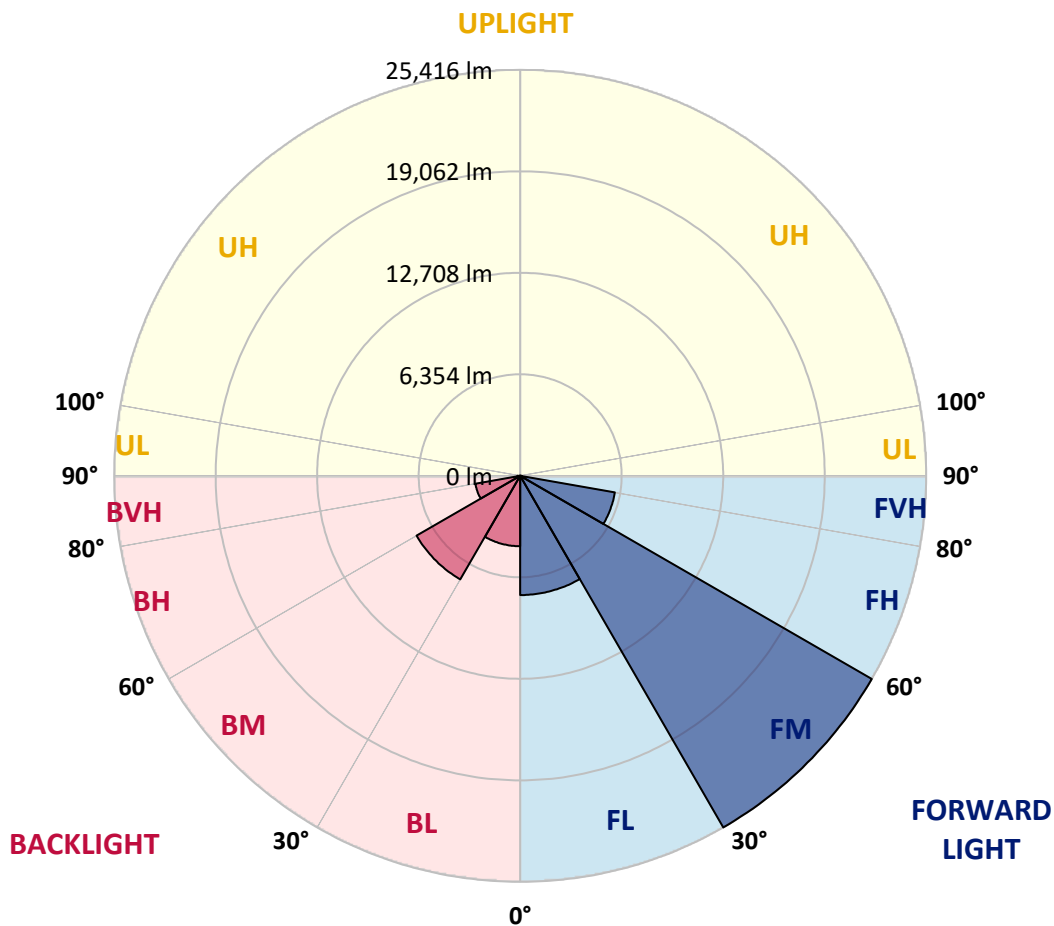
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7463.3	13.8			
FM (30°-60°)	25416.2	47.1			
FH (60°-80°)	6019.0	11.2			G3/7500
FVH (80°-90°)	104.3	0.2			G2/225
BL (0°-30°)	4408.8	8.2	B4/5000		
BM (30°-60°)	7486.8	13.9	B4/8500		
BH (60°-80°)	2849.9	5.3	B4/5000		G4/5000
BVH (80°-90°)	171.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	20958.1	20958.1	20958.1	20958.1	20958.1	20958.1	20958.1	20958.1	20958.1	20958.1	20958.1
2.5°	21554.1	21470.9	21484.8	21595.7	21457.1	21401.6	21401.6	21131.4	21152.1	20965.0	20916.5
5°	21055.1	20861.1	20992.7	21159.1	21186.8	21242.2	21332.3	21263.0	21069.0	20868.0	20542.3
7.5°	19752.2	19925.4	19973.9	20091.8	20341.3	20570.0	20854.1	20660.1	20653.1	20452.2	20258.1
10°	18608.6	18504.7	18768.0	18941.3	19357.1	19738.3	20174.9	20154.1	20258.1	20029.4	19696.7
12.5°	17472.0	17388.8	17513.6	17908.6	18490.8	19045.2	19565.0	19371.0	19925.4	19883.8	19170.0
15°	16266.1	16328.5	16508.7	16876.0	17638.3	18303.7	18962.1	18969.0	19461.1	19627.4	18671.0
17.5°	15420.5	15351.2	15580.0	16127.5	16806.7	17603.7	18352.2	18504.7	19260.1	19357.1	18518.5
20°	14789.9	14886.9	15184.9	15462.1	16245.3	17208.6	18054.2	18109.6	19218.5	19481.9	18276.0
22.5°	14637.4	14581.9	14679.0	15129.5	15774.0	16820.5	17894.8	18102.7	19211.6	19440.3	17818.5
25°	14478.0	14658.2	14651.3	15101.7	15573.0	16508.7	18026.4	18255.2	19578.9	19655.1	17880.9
27.5°	14838.4	14817.6	15011.6	15046.3	15628.5	16591.8	18303.7	18476.9	20188.8	20126.4	17929.4
30°	15198.8	15094.8	15212.6	15621.5	15891.8	17070.0	19066.0	19052.2	20978.9	20937.3	18081.9
32.5°	15642.3	15593.8	15670.1	16030.4	16487.9	17707.6	19710.6	20119.5	21782.8	22046.2	18608.6
35°	15725.5	15926.5	16106.7	16591.8	17243.3	18740.3	20923.4	21263.0	22711.5	23536.3	19613.6
37.5°	16252.2	16328.5	16751.2	17610.6	18206.6	20119.5	21692.7	21907.6	23557.1	24492.7	20673.9
40°	16813.6	16903.7	17541.3	18442.3	19260.1	21020.5	22413.5	22482.8	23827.3	25227.3	21367.0
42.5°	17576.0	17659.1	18289.8	19419.5	20514.5	21789.8	23051.1	23127.4	23806.6	26072.9	22469.0
45°	18366.0	18567.0	19308.6	20590.8	21574.9	22690.7	23196.7	23508.5	24000.6	26828.3	23363.0
47.5°	19474.9	19662.1	20272.0	21526.4	22676.9	23480.8	23868.9	24173.9	24465.0	27486.7	23938.2
50°	20653.1	20687.8	21429.4	22566.0	23411.5	24374.9	25123.4	25227.3	25074.9	28249.1	24915.4
52.5°	21519.5	21630.4	22205.6	23314.5	24575.9	25761.0	26786.7	26897.6	26599.6	28533.2	25248.1
55°	20084.8	20022.5	20958.1	22434.3	25359.0	27826.3	29316.4	29399.5	27708.5	29413.4	26336.2
57.5°	15524.5	15822.5	16619.5	18400.7	22531.3	28741.1	31270.8	30972.8	29039.1	29857.0	27029.3
60°	11283.0	11213.7	11747.3	12939.4	16979.9	24769.9	29565.9	29870.8	27951.0	26911.5	22288.8
62.5°	9190.0	9092.9	9134.5	9176.1	10957.3	16439.3	21886.8	21879.9	21526.4	19343.3	15032.4
65°	7346.4	7575.1	7595.9	7907.8	8136.5	9820.6	12683.0	13362.2	11636.5	9543.4	6923.7
67.5°	5537.5	5454.4	5731.6	6840.5	7270.2	7090.0	6923.7	6999.9	4976.2	3590.0	3382.1
70°	3264.3	3229.7	3562.3	4768.2	5988.0	5634.6	5218.7	5225.7	3416.8	2508.9	2793.0
72.5°	1788.1	1781.2	1850.5	2418.8	3402.9	3534.6	3132.6	3229.7	2037.6	2030.7	2183.1
75°	998.0	977.2	956.4	1067.3	1226.7	1296.0	1323.7	1337.6	1400.0	1566.3	1628.7
77.5°	367.3	353.5	353.5	408.9	519.8	651.5	824.7	838.6	991.1	1136.6	1199.0
80°	124.8	138.6	187.1	256.4	346.5	464.3	561.4	575.2	700.0	797.0	817.8
82.5°	76.2	83.2	124.8	180.2	249.5	325.7	415.8	422.8	519.8	582.2	609.9
85°	34.7	41.6	69.3	110.9	159.4	214.8	221.8	221.8	214.8	221.8	207.9
87.5°	0.0	0.0	13.9	13.9	13.9	20.8	27.7	20.8	34.7	41.6	41.6
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°	20958.1	20958.1	20958.1	20958.1	20958.1	20958.1	20958.1	20958.1	20958.1	20958.1	20958.1
2.5°	20771.0	20694.7	20459.1	20251.2	20188.8	19911.6	19502.7	19551.2	19253.2	19391.8	19246.2
5°	20486.8	20230.4	19627.4	19371.0	18698.7	18393.8	18185.9	17666.1	17423.5	17375.0	17167.1
7.5°	19759.1	19599.7	18844.3	18151.2	17437.3	16827.5	16044.3	15510.6	15129.5	15025.5	14720.6
10°	19183.9	18830.4	17783.9	16730.4	15711.6	14651.3	13632.5	12835.4	12447.3	11996.8	11844.4
12.5°	18615.5	18081.9	16668.1	15316.6	13999.8	12662.2	11428.5	10458.3	9612.7	9411.7	9342.4
15°	18262.1	17333.4	15670.1	14041.4	12170.1	10423.6	9190.0	8552.3	8032.5	7817.7	7970.2
17.5°	17797.7	16716.6	14713.6	12544.4	10486.0	8878.1	7845.4	7450.4	7263.3	7284.0	7221.7
20°	17215.6	16134.4	13459.2	11186.0	8982.0	7699.9	7110.8	6965.2	6993.0	7041.5	7020.7
22.5°	16799.7	15427.5	12551.3	9799.8	7762.3	7048.4	6805.8	6701.9	6792.0	6833.6	6798.9
25°	16480.9	14824.5	11449.3	8573.1	7055.3	6681.1	6570.2	6563.3	6701.9	6757.3	6722.7
27.5°	16189.8	14263.1	10354.3	7637.5	6584.1	6396.9	6362.3	6445.4	6535.5	6591.0	6639.5
30°	16016.6	13833.4	9328.6	6854.3	6348.4	6258.3	6195.9	6272.2	6320.7	6376.1	6348.4
32.5°	16182.9	13528.5	8337.5	6410.8	6154.4	6064.3	6147.4	6098.9	6182.1	6230.6	6154.4
35°	16702.7	13258.2	7630.6	6175.2	5932.6	5967.2	5981.1	5960.3	5995.0	5953.4	6043.5
37.5°	17215.6	13161.2	6979.1	5974.2	5828.6	5828.6	5814.8	5773.2	5842.5	5828.6	5870.2
40°	17867.0	13223.6	6424.7	5759.3	5731.6	5717.7	5662.3	5655.4	5627.6	5634.6	5648.4
42.5°	18435.4	13362.2	6105.8	5620.7	5641.5	5669.2	5565.3	5482.1	5516.7	5447.4	5447.4
45°	19038.3	13486.9	5821.7	5523.7	5502.9	5496.0	5412.8	5364.3	5336.5	5343.5	5405.9
47.5°	19987.8	13667.1	5606.8	5392.0	5405.9	5301.9	5281.1	5218.7	5246.5	5288.0	5295.0
50°	20660.1	14048.3	5440.5	5239.5	5288.0	5218.7	5094.0	5066.3	5066.3	5135.6	5121.7
52.5°	21131.4	14581.9	5281.1	5073.2	5094.0	5038.5	4997.0	4934.6	4893.0	4990.0	5038.5
55°	22572.9	15469.1	5239.5	4934.6	4927.6	4872.2	4796.0	4733.6	4712.8	4726.7	4823.7
57.5°	22434.3	15191.8	5107.8	4692.0	4678.1	4601.9	4525.7	4504.9	4497.9	4511.8	4539.5
60°	18213.6	11220.6	4560.3	4414.8	4394.0	4380.1	4303.9	4220.7	4179.1	4220.7	4186.1
62.5°	12052.3	7512.8	4019.7	4082.1	4096.0	4061.3	3936.6	3853.4	3867.3	3915.8	3839.5
65°	5918.7	4414.8	3645.5	3811.8	3825.7	3728.7	3610.8	3513.8	3465.3	3506.9	3472.2
67.5°	3382.1	3375.2	3340.5	3513.8	3506.9	3409.8	3222.7	3139.6	3056.4	3070.2	3049.5
70°	2869.3	2924.7	2994.0	3098.0	3091.0	2980.2	2758.4	2696.0	2578.2	2564.3	2529.7
72.5°	2259.4	2356.4	2508.9	2585.1	2522.7	2384.1	2238.6	2134.6	2030.7	1968.3	1989.1
75°	1677.2	1815.8	1899.0	1947.5	1850.5	1774.2	1656.4	1531.7	1406.9	1351.5	1330.7
77.5°	1219.8	1261.4	1337.6	1372.3	1309.9	1233.6	1164.3	1039.6	921.8	845.5	824.7
80°	852.5	880.2	935.6	935.6	935.6	901.0	810.9	686.1	609.9	540.6	526.7
82.5°	596.0	623.8	679.2	651.5	644.5	603.0	547.5	450.5	367.3	318.8	304.9
85°	207.9	228.7	277.2	332.7	353.5	346.5	311.9	249.5	194.1	159.4	145.5
87.5°	48.5	48.5	55.4	48.5	48.5	55.4	48.5	48.5	48.5	34.7	27.7
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)