

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: P457408

Luminaire Tested: **GALN-SA8D-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52127 lumens
Efficiency: N/A
Efficacy: 105.7 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

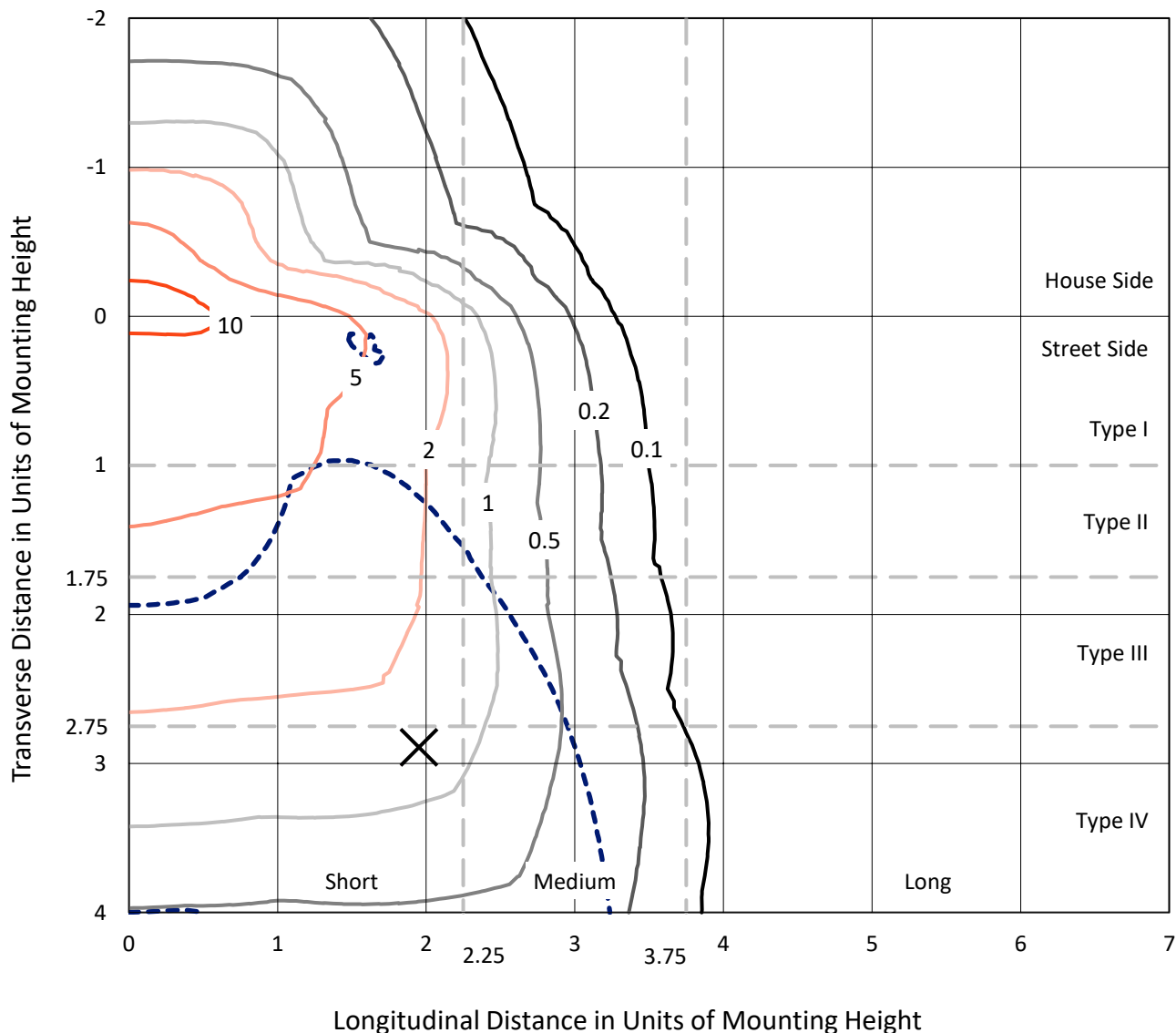
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

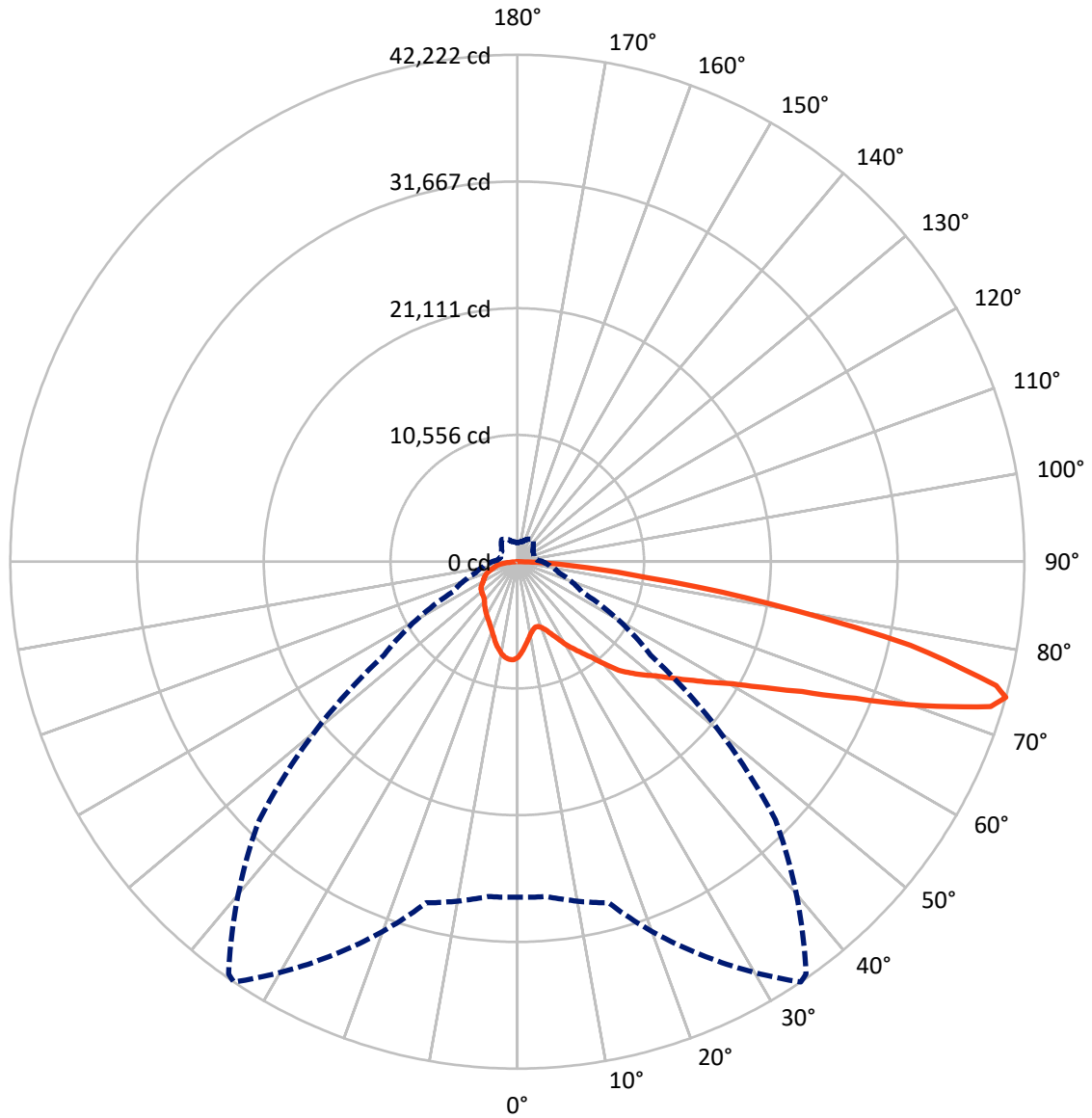
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11093.0	0.0	11093.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	41034.0	0.0	41034.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	52127.0	0.0	52127.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.8	1.4
10°-20°	1981.4	3.8
20°-30°	3266.8	6.3
30°-40°	4893.3	9.4
40°-50°	7113.6	13.6
50°-60°	9936.0	19.1
60°-70°	12439.3	23.9
70°-80°	10286.3	19.7
80°-90°	1486.3	2.9
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°	52127.0	100.0
0°-180°	52127.0	100.0

Coefficient of Utilization



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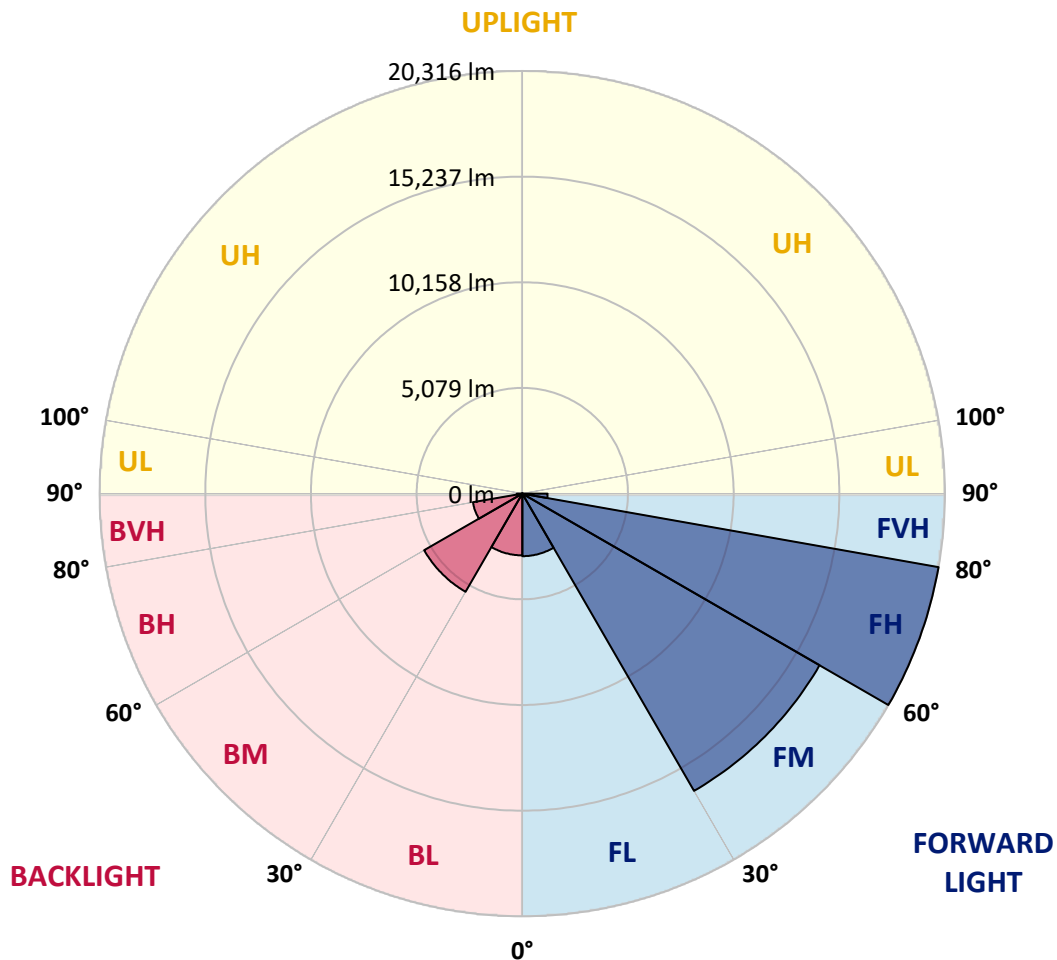
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3004.9	5.8			
FM (30°-60°)	16495.1	31.6			
FH (60°-80°)	20316.4	39.0			G5
FVH (80°-90°)	1217.6	2.3			G5
BL (0°-30°)	2967.2	5.7	B4/5000		
BM (30°-60°)	5447.8	10.5	B4/8500		
BH (60°-80°)	2409.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	268.7	0.5			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°	34°	35°	45°	55°	65°	75°	85°
0°	7958.8	7958.8	7958.8	7958.8	7958.8	7958.8	7958.8	7958.8	7958.8	7958.8	7958.8
2.5°	7355.2	7392.8	7413.0	7485.2	7502.5	7525.6	7586.2	7667.1	7771.1	7863.5	7944.3
5°	6743.0	6800.8	6835.4	6898.9	7023.1	7034.7	7196.4	7381.2	7592.0	7788.4	7950.1
7.5°	6162.6	6226.1	6255.0	6370.5	6535.1	6561.1	6797.9	7089.5	7441.8	7739.3	7987.6
10°	5726.5	5758.3	5821.8	5908.4	6104.8	6122.1	6431.1	6821.0	7277.2	7716.2	8051.2
12.5°	5489.7	5507.0	5521.5	5613.9	5807.4	5833.3	6156.8	6598.6	7147.3	7733.5	8155.1
15°	5524.4	5530.1	5466.6	5483.9	5639.9	5677.4	5997.9	6451.3	7066.4	7776.8	8311.1
17.5°	5816.0	5795.8	5639.9	5559.0	5668.7	5686.1	5966.2	6393.6	7028.9	7857.7	8472.8
20°	6275.2	6246.3	5977.7	5798.7	5862.2	5876.7	6070.1	6436.9	7066.4	7990.5	8724.0
22.5°	6847.0	6835.4	6428.2	6211.6	6208.8	6208.8	6309.8	6592.8	7179.1	8172.5	8986.8
25°	7646.9	7586.2	7054.9	6774.8	6696.8	6691.0	6679.5	6849.8	7323.4	8365.9	9298.7
27.5°	8467.0	8363.1	7889.5	7459.2	7291.7	7271.5	7196.4	7213.7	7508.3	8585.4	9653.9
30°	9203.4	9137.0	8692.3	8215.8	8016.5	7970.3	7762.4	7667.1	7817.3	8981.0	10219.9
32.5°	9766.5	9726.1	9379.6	8946.4	8651.8	8643.2	8340.0	8262.0	8299.5	9460.4	10866.8
35°	10222.8	10237.2	10061.1	9685.7	9347.8	9298.7	9096.6	8998.4	8888.6	10153.5	11681.1
37.5°	10846.6	10878.3	10866.8	10543.3	10130.4	10141.9	10095.7	9934.0	9642.3	10927.4	12585.0
40°	11533.9	11557.0	11554.1	11429.9	11213.3	11224.9	11207.5	11022.7	10586.7	11912.2	13590.0
42.5°	12483.9	12374.2	12088.3	12212.5	12339.5	12394.4	12512.8	12336.7	11738.9	12963.3	14534.3
45°	13546.6	13338.7	12691.9	12749.6	13220.3	13324.3	13976.9	13734.4	12989.3	14170.4	15646.1
47.5°	14216.6	14011.6	13465.8	13454.2	14078.0	14179.1	15334.2	15244.7	14127.1	15472.8	17003.3
50°	14814.4	14785.5	14170.4	14317.7	14927.0	15077.2	16812.7	16729.0	15262.0	17009.1	18481.9
52.5°	15700.9	15467.0	14976.1	15279.3	16085.0	16281.4	18279.7	18034.3	16304.5	18366.4	19917.1
55°	16099.5	16044.6	16015.7	16278.5	17384.5	17526.0	19706.3	19143.2	17193.9	19515.7	21008.7
57.5°	17165.1	17064.0	17349.9	17528.9	18915.1	19131.6	21196.4	20301.2	17973.6	20428.3	21540.1
60°	18545.4	18490.5	18753.3	19076.8	20624.6	20953.8	22894.4	21288.8	18600.3	20887.4	21248.4
62.5°	20607.3	20601.5	20552.4	21245.5	23047.5	23350.7	24843.7	22250.5	18698.5	20543.8	19741.0
65°	23564.4	23460.4	23033.0	23789.7	26062.3	26417.5	26873.8	22787.6	18106.5	18779.3	16622.1
67.5°	26657.2	26651.5	26304.9	27286.8	30391.2	30757.9	29412.2	22669.2	16463.3	15212.9	11805.3
70°	29221.6	29097.4	29539.3	32155.6	35921.3	36345.8	31632.9	21274.4	13113.5	10046.6	7014.5
72.5°	29836.7	29842.5	30760.8	35909.7	41231.9	41298.4	32432.8	17243.0	8776.0	5541.7	3508.7
74°	27942.3	27991.4	29415.1	36097.4	42222.4	41922.1	30388.3	13552.4	5934.4	3618.4	2529.7
75°	25505.0	25196.0	27255.0	34847.0	41194.4	40871.0	27994.3	10875.4	4528.1	2890.7	2214.9
77.5°	13636.2	13950.9	17127.5	26004.6	33466.7	33094.1	18981.5	5215.4	2446.0	2012.8	1594.1
80°	4854.4	5354.0	7525.6	13607.3	21456.3	21571.8	9059.0	2391.1	1721.1	1484.3	1126.2
82.5°	1981.0	2035.9	3231.4	6038.4	10895.6	10999.6	3699.3	1420.8	1230.2	1022.3	672.9
85°	773.9	797.0	1429.5	2714.5	4649.3	4952.6	1279.3	750.8	756.6	586.2	343.6
87.5°	259.9	294.6	586.2	903.9	1579.6	1547.9	372.5	222.4	271.5	254.1	106.8
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°	7958.8	7958.8	7958.8	7958.8	7958.8	7958.8	7958.8	7958.8	7958.8	7958.8	7958.8
2.5°	7984.8	8039.6	8077.2	8117.6	8155.1	8166.7	8158.0	8184.0	8186.9	8189.8	8192.7
5°	8031.0	8106.0	8178.2	8218.7	8236.0	8221.6	8172.5	8146.5	8123.4	8106.0	8111.8
7.5°	8094.5	8201.3	8267.8	8285.1	8238.9	8172.5	8051.2	7955.9	7895.2	7854.8	7851.9
10°	8192.7	8296.6	8351.5	8302.4	8175.3	8013.6	7823.0	7644.0	7508.3	7467.8	7464.9
12.5°	8316.8	8435.2	8432.4	8288.0	8065.6	7776.8	7467.8	7259.9	7075.1	6982.7	7020.2
15°	8478.6	8568.1	8484.3	8224.4	7872.1	7476.5	7095.3	6812.3	6604.4	6506.2	6512.0
17.5°	8666.3	8744.2	8521.9	8111.8	7600.7	7092.4	6650.6	6382.0	6217.4	6145.2	6139.5
20°	8900.2	8923.3	8521.9	7915.4	7251.3	6644.8	6223.2	6035.5	5943.1	5905.5	5917.1
22.5°	9151.4	9105.2	8475.7	7638.2	6792.1	6177.0	5894.0	5810.2	5764.0	5758.3	5764.0
25°	9434.4	9304.5	8380.4	7262.8	6312.7	5772.7	5608.1	5622.5	5631.2	5631.2	5651.4
27.5°	9781.0	9521.1	8221.6	6789.2	5752.5	5397.3	5351.1	5452.2	5498.4	5507.0	5521.5
30°	10237.2	9757.9	7958.8	6197.2	5276.0	5059.4	5140.3	5276.0	5328.0	5359.7	5354.0
32.5°	10780.1	10017.8	7603.6	5605.2	4891.9	4822.6	4920.8	5059.4	5117.2	5134.5	5111.4
35°	11418.3	10312.3	7135.7	5050.8	4556.9	4597.4	4712.9	4756.2	4808.2	4808.2	4819.7
37.5°	12105.6	10549.1	6564.0	4542.5	4297.0	4444.3	4528.1	4487.6	4464.5	4435.7	4450.1
40°	12804.5	10725.3	5821.8	4040.0	4037.1	4285.5	4308.6	4193.1	4100.7	4071.8	4057.4
42.5°	13413.8	10835.0	5151.8	3650.2	3791.7	4129.5	4146.9	3962.1	3814.8	3728.1	3699.3
45°	14132.9	10962.1	4496.3	3326.7	3563.5	4005.4	4048.7	3800.3	3583.8	3401.8	3355.6
47.5°	15117.6	11250.8	3979.4	3075.5	3398.9	3927.4	3988.0	3667.5	3381.6	3144.8	3107.3
50°	16229.4	11646.5	3578.0	2905.1	3271.9	3858.1	3933.2	3531.8	3193.9	2931.1	2902.2
52.5°	17248.8	11860.2	3231.4	2752.1	3147.7	3731.0	3861.0	3433.6	3009.1	2717.4	2691.4
55°	17806.1	11513.6	2890.7	2601.9	2977.3	3566.4	3759.9	3297.9	2830.0	2604.8	2567.2
57.5°	17881.2	10797.5	2581.7	2440.2	2798.3	3364.3	3572.2	3133.3	2714.5	2526.8	2495.1
60°	17300.8	9729.0	2342.0	2307.3	2616.3	3136.1	3361.4	2988.9	2596.1	2440.2	2408.4
62.5°	15856.9	8568.1	2174.5	2186.1	2431.5	2896.5	3205.5	2850.3	2483.5	2344.9	2316.0
65°	13373.4	7072.2	2012.8	2061.9	2266.9	2708.8	3064.0	2734.7	2370.9	2272.7	2246.7
67.5°	9290.0	5105.6	1880.0	1931.9	2111.0	2518.2	2899.3	2610.6	2243.8	2191.8	2151.4
70°	5143.2	3141.9	1724.0	1784.7	1949.3	2304.5	2714.5	2422.9	2059.0	2035.9	1978.1
72.5°	2703.0	2001.2	1547.9	1614.3	1729.8	2030.1	2431.5	2217.8	1877.1	1778.9	1703.8
74°	2111.0	1640.3	1429.5	1498.8	1576.7	1868.4	2264.0	2070.5	1747.1	1631.6	1573.8
75°	1839.5	1461.2	1328.4	1417.9	1487.2	1758.7	2134.1	1966.6	1674.9	1565.2	1513.2
77.5°	1299.5	1094.5	1085.8	1192.7	1230.2	1542.1	1923.3	1790.4	1493.0	1377.5	1328.4
80°	912.5	820.1	860.6	927.0	979.0	1363.0	1784.7	1547.9	1224.4	1088.7	1071.4
82.5°	594.9	537.1	615.1	675.7	693.1	1005.0	1441.0	1175.3	892.3	724.8	672.9
85°	274.3	268.6	352.3	343.6	340.8	490.9	854.8	687.3	514.0	384.1	361.0
87.5°	69.3	66.4	86.6	72.2	86.6	75.1	78.0	20.2	2.9	0.0	0.0
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)