

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: P456567

Luminaire Tested: **GALN-SA7D-750-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456567
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-SA7D-750-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 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: 53763 lumens
Efficiency: N/A
Efficacy: 124.2 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

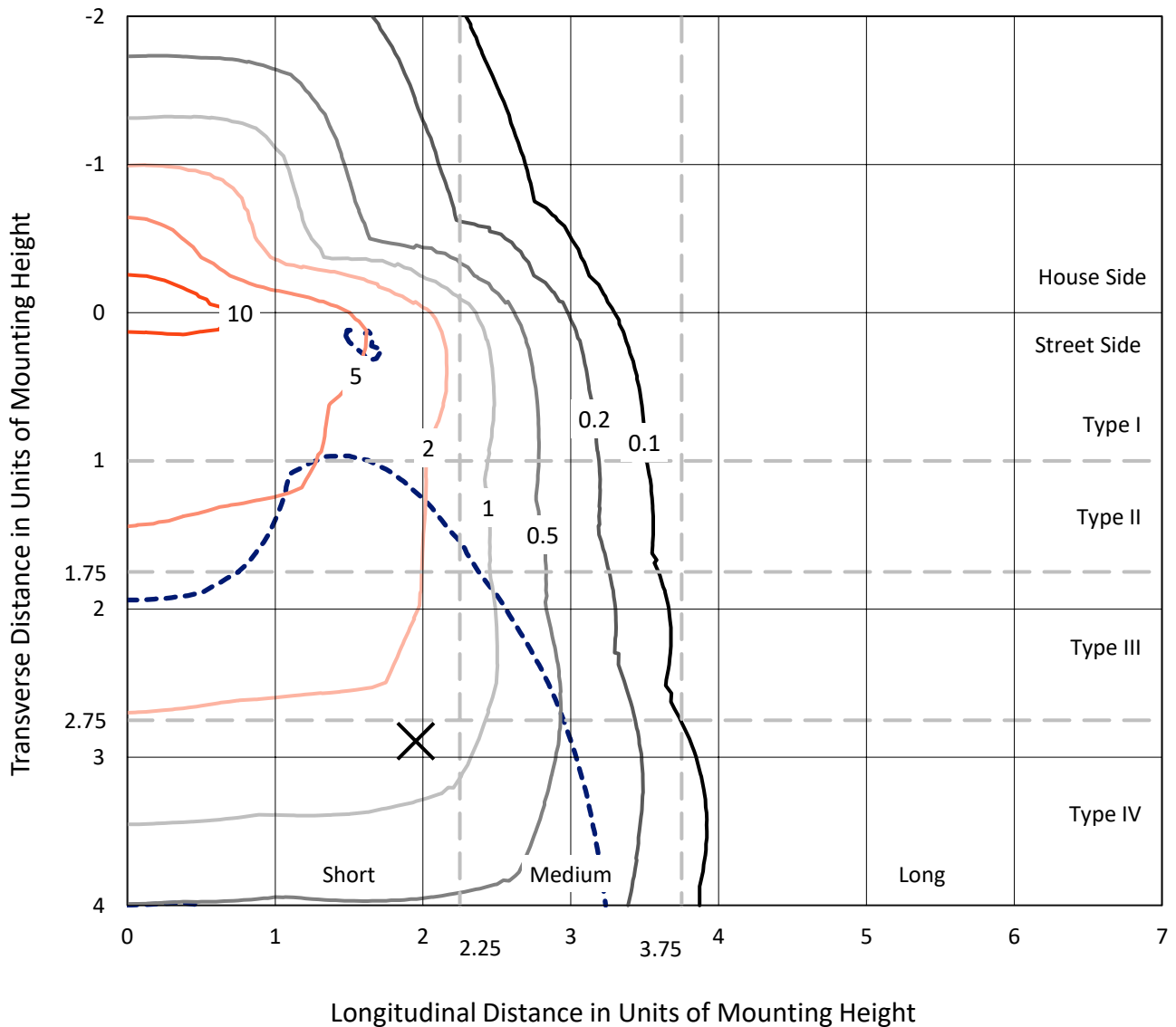
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

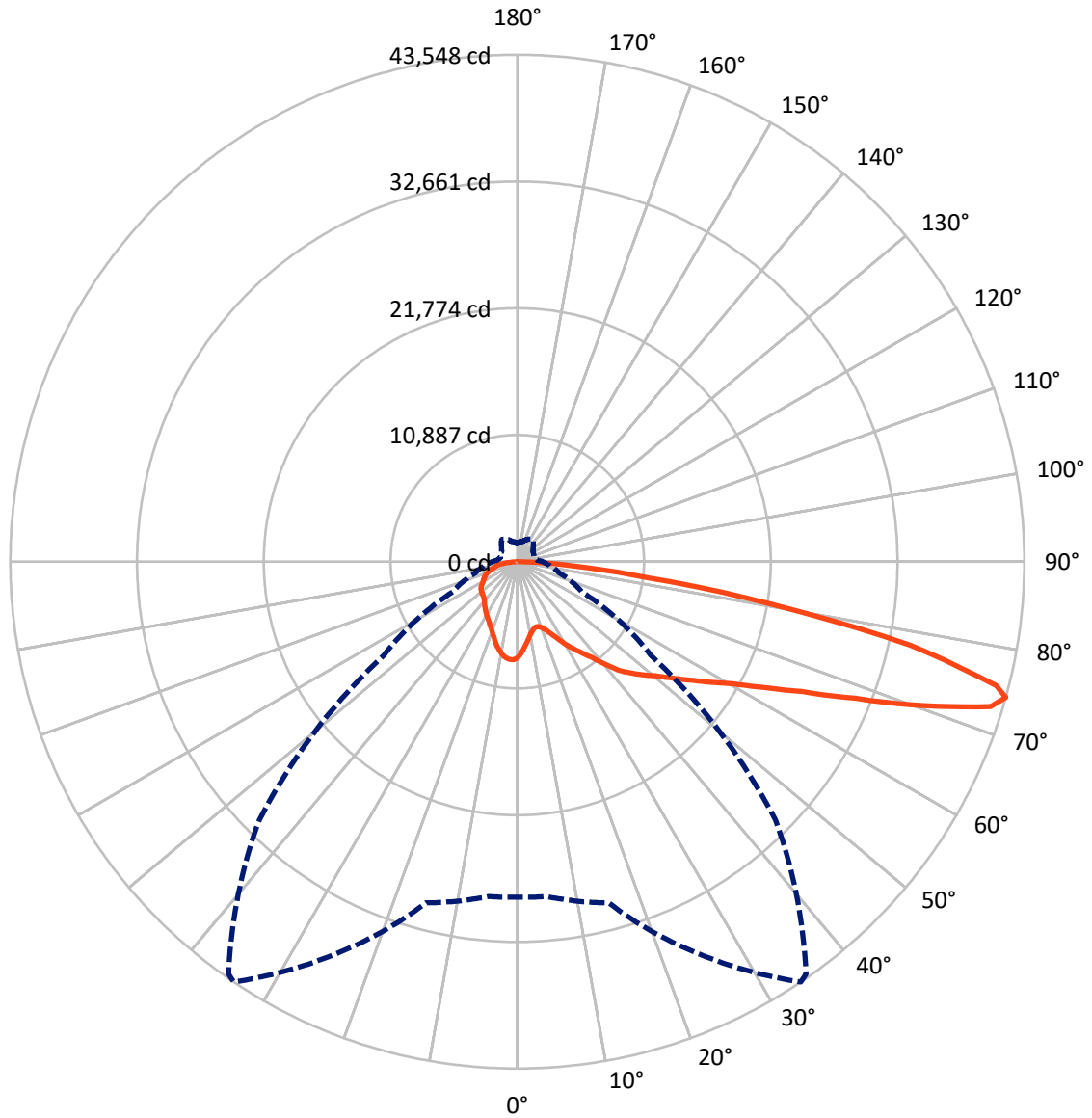
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	11441.2	0.0	11441.2
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	42321.8	0.0	42321.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	53763.0	0.0	53763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.5	1.4
10°-20°	2043.6	3.8
20°-30°	3369.4	6.3
30°-40°	5046.9	9.4
40°-50°	7336.9	13.6
50°-60°	10247.8	19.1
60°-70°	12829.8	23.9
70°-80°	10609.2	19.7
80°-90°	1532.9	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°	53763.0	100.0
0°-180°	53763.0	100.0

Coefficient of Utilization



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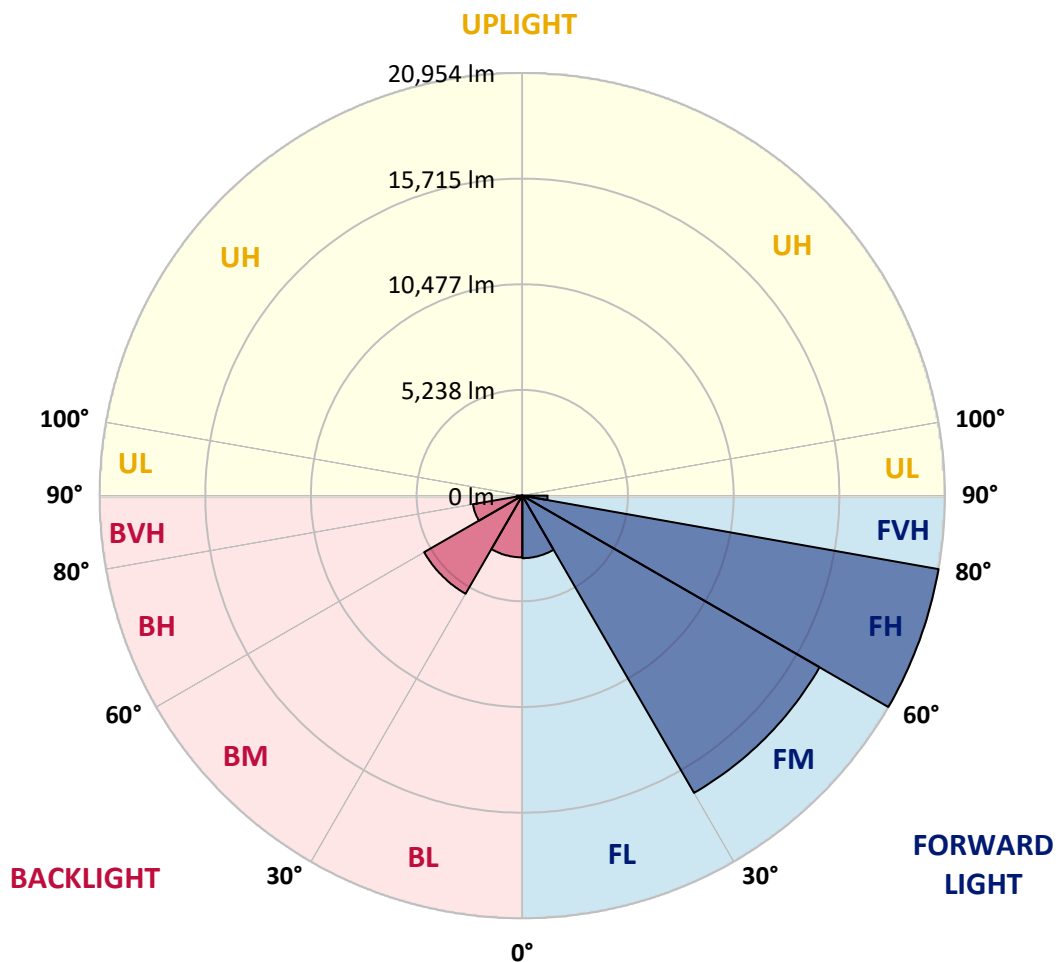
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3099.2	5.8			
FM	(30°-60°)	17012.8	31.6			
FH	(60°-80°)	20954.0	39.0			G5
FVH	(80°-90°)	1255.8	2.3			G5
BL	(0°-30°)	3060.3	5.7	B4/5000		
BM	(30°-60°)	5618.8	10.5	B4/8500		
BH	(60°-80°)	2484.9	4.6	B3/2500		G3/2500
BVH	(80°-90°)	277.1	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°	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5
2.5°	7586.1	7624.8	7645.6	7720.1	7738.0	7761.8	7824.3	7907.7	8014.9	8110.3	8193.7
5°	6954.6	7014.2	7049.9	7115.5	7243.5	7255.4	7422.2	7612.9	7830.3	8032.8	8199.6
7.5°	6356.0	6421.5	6451.3	6570.4	6740.2	6767.0	7011.2	7312.0	7675.4	7982.2	8238.3
10°	5906.2	5939.0	6004.5	6093.9	6296.4	6314.3	6633.0	7035.0	7505.6	7958.4	8303.9
12.5°	5662.0	5679.9	5694.8	5790.1	5989.6	6016.4	6350.0	6805.7	7371.6	7976.2	8411.1
15°	5697.7	5703.7	5638.2	5656.0	5816.9	5855.6	6186.2	6653.8	7288.2	8020.9	8571.9
17.5°	5998.6	5977.7	5816.9	5733.5	5846.7	5864.5	6153.4	6594.2	7249.5	8104.3	8738.7
20°	6472.1	6442.3	6165.3	5980.7	6046.2	6061.1	6260.7	6638.9	7288.2	8241.3	8997.8
22.5°	7061.9	7049.9	6630.0	6406.6	6403.6	6403.6	6507.9	6799.8	7404.4	8429.0	9268.9
25°	7886.9	7824.3	7276.3	6987.4	6907.0	6901.0	6889.1	7064.8	7553.3	8628.5	9590.5
27.5°	8732.8	8625.5	8137.1	7693.3	7520.5	7499.7	7422.2	7440.1	7743.9	8854.9	9956.9
30°	9492.2	9423.7	8965.1	8473.6	8268.1	8220.5	8006.0	7907.7	8062.6	9262.9	10540.7
32.5°	10073.0	10031.3	9673.9	9227.2	8923.4	8914.4	8601.7	8521.3	8560.0	9757.3	11207.8
35°	10543.6	10558.5	10376.8	9989.6	9641.2	9590.5	9382.0	9280.8	9167.6	10472.2	12047.7
37.5°	11187.0	11219.7	11207.8	10874.2	10448.3	10460.2	10412.6	10245.8	9945.0	11270.4	12980.0
40°	11895.8	11919.7	11916.7	11788.6	11565.2	11577.1	11559.3	11368.7	10918.9	12286.0	14016.5
42.5°	12875.7	12762.6	12467.7	12595.8	12726.8	12783.4	12905.5	12723.8	12107.3	13370.2	14990.4
45°	13971.8	13757.4	13090.2	13149.8	13635.2	13742.5	14415.6	14165.4	13397.0	14615.1	16137.1
47.5°	14662.8	14451.3	13888.4	13876.5	14519.8	14624.1	15815.5	15723.1	14570.5	15958.4	17537.0
50°	15279.3	15249.5	14615.1	14767.0	15395.5	15550.4	17340.4	17254.0	15741.0	17542.9	19061.9
52.5°	16193.7	15952.5	15446.1	15758.9	16589.8	16792.4	18853.4	18600.3	16816.2	18942.8	20542.2
55°	16604.7	16548.1	16518.4	16789.4	17930.1	18076.1	20324.8	19744.0	17733.6	20128.2	21668.1
57.5°	17703.8	17599.5	17894.4	18079.1	19508.7	19732.1	21861.7	20938.3	18537.7	21069.4	22216.1
60°	19127.5	19070.9	19341.9	19675.5	21271.9	21611.5	23613.0	21957.0	19184.1	21543.0	21915.3
62.5°	21254.1	21248.1	21197.5	21912.3	23770.8	24083.6	25623.4	22948.8	19285.3	21188.5	20360.5
65°	24304.0	24196.7	23755.9	24536.3	26880.3	27246.7	27717.2	23502.8	18674.7	19368.7	17143.8
67.5°	27493.9	27487.9	27130.5	28143.2	31345.0	31723.2	30335.3	23380.7	16980.0	15690.4	12175.8
70°	30138.7	30010.6	30466.3	33164.8	37048.7	37486.5	32625.7	21942.1	13525.0	10362.0	7234.6
72.5°	30773.1	30779.1	31726.2	37036.7	42526.0	42594.5	33450.7	17784.2	9051.4	5715.6	3618.8
74°	28819.3	28869.9	30338.3	37230.3	43547.6	43237.8	31342.0	13977.8	6120.7	3732.0	2609.1
75°	26305.5	25986.8	28110.4	35940.7	42487.3	42153.7	28872.9	11216.8	4670.2	2981.4	2284.5
77.5°	14064.1	14388.8	17665.1	26820.7	34517.0	34132.8	19577.2	5379.0	2522.7	2076.0	1644.1
80°	5006.7	5522.0	7761.8	14034.4	22129.7	22248.9	9343.3	2466.1	1775.1	1530.9	1161.6
82.5°	2043.2	2099.8	3332.9	6227.9	11237.6	11344.8	3815.4	1465.4	1268.8	1054.4	694.0
85°	798.2	822.0	1474.3	2799.7	4795.3	5108.0	1319.4	774.4	780.3	604.6	354.4
87.5°	268.1	303.8	604.6	932.2	1629.2	1596.4	384.2	229.3	280.0	262.1	110.2
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°	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5
2.5°	8235.4	8291.9	8330.7	8372.4	8411.1	8423.0	8414.1	8440.9	8443.8	8446.8	8449.8
5°	8283.0	8360.4	8434.9	8476.6	8494.5	8479.6	8429.0	8402.1	8378.3	8360.4	8366.4
7.5°	8348.5	8458.7	8527.2	8545.1	8497.5	8429.0	8303.9	8205.6	8143.0	8101.3	8098.3
10°	8449.8	8557.0	8613.6	8563.0	8431.9	8265.1	8068.6	7883.9	7743.9	7702.2	7699.2
12.5°	8577.9	8700.0	8697.0	8548.1	8318.7	8020.9	7702.2	7487.8	7297.1	7201.8	7240.6
15°	8744.7	8837.0	8750.6	8482.6	8119.2	7711.1	7318.0	7026.1	6811.7	6710.4	6716.4
17.5°	8938.3	9018.7	8789.3	8366.4	7839.2	7315.0	6859.3	6582.3	6412.6	6338.1	6332.1
20°	9179.5	9203.3	8789.3	8163.9	7478.8	6853.4	6418.5	6224.9	6129.6	6090.9	6102.8
22.5°	9438.6	9391.0	8741.7	7877.9	7005.3	6370.9	6079.0	5992.6	5944.9	5939.0	5944.9
25°	9730.5	9596.5	8643.4	7490.7	6510.8	5953.9	5784.1	5799.0	5807.9	5807.9	5828.8
27.5°	10087.9	9819.9	8479.6	7002.3	5933.0	5566.7	5519.0	5623.3	5670.9	5679.9	5694.8
30°	10558.5	10064.1	8208.5	6391.7	5441.6	5218.2	5301.6	5441.6	5495.2	5528.0	5522.0
32.5°	11118.5	10332.2	7842.2	5781.1	5045.5	4974.0	5075.2	5218.2	5277.8	5295.6	5271.8
35°	11776.7	10636.0	7359.7	5209.3	4700.0	4741.7	4860.8	4905.5	4959.1	4959.1	4971.0
37.5°	12485.6	10880.2	6770.0	4685.1	4431.9	4583.8	4670.2	4628.5	4604.6	4574.9	4589.8
40°	13206.3	11061.9	6004.5	4166.8	4163.8	4420.0	4443.8	4324.7	4229.4	4199.6	4184.7
42.5°	13834.8	11175.1	5313.5	3764.7	3910.7	4259.2	4277.0	4086.4	3934.5	3845.2	3815.4
45°	14576.4	11306.1	4637.4	3431.1	3675.4	4131.1	4175.8	3919.6	3696.2	3508.6	3460.9
47.5°	15592.1	11604.0	4104.3	3172.0	3505.6	4050.7	4113.2	3782.6	3487.7	3243.5	3204.8
50°	16738.8	12012.0	3690.3	2996.3	3374.6	3979.2	4056.6	3642.6	3294.1	3023.1	2993.3
52.5°	17790.1	12232.4	3332.9	2838.4	3246.5	3848.1	3982.2	3541.4	3103.5	2802.7	2775.9
55°	18365.0	11875.0	2981.4	2683.6	3070.8	3678.4	3877.9	3401.4	2918.9	2686.5	2647.8
57.5°	18442.4	11136.3	2662.7	2516.8	2886.1	3469.9	3684.3	3231.6	2799.7	2606.1	2573.4
60°	17843.8	10034.3	2415.5	2379.8	2698.5	3234.6	3466.9	3082.7	2677.6	2516.8	2484.0
62.5°	16354.5	8837.0	2242.8	2254.7	2507.8	2987.4	3306.1	2939.7	2561.4	2418.5	2388.7
65°	13793.1	7294.2	2076.0	2126.6	2338.1	2793.8	3160.1	2820.6	2445.3	2344.0	2317.2
67.5°	9581.6	5265.9	1939.0	1992.6	2177.2	2597.2	2990.3	2692.5	2314.2	2260.6	2218.9
70°	5304.6	3240.5	1778.1	1840.7	2010.4	2376.8	2799.7	2498.9	2123.6	2099.8	2040.2
72.5°	2787.8	2064.1	1596.4	1664.9	1784.1	2093.8	2507.8	2287.4	1936.0	1834.7	1757.3
74°	2177.2	1691.7	1474.3	1545.8	1626.2	1927.0	2335.1	2135.5	1801.9	1682.8	1623.2
75°	1897.3	1507.1	1370.1	1462.4	1533.9	1813.9	2201.1	2028.3	1727.5	1614.3	1560.7
77.5°	1340.3	1128.8	1119.9	1230.1	1268.8	1590.5	1983.6	1846.6	1539.8	1420.7	1370.1
80°	941.2	845.9	887.6	956.1	1009.7	1405.8	1840.7	1596.4	1262.9	1122.9	1105.0
82.5°	613.6	554.0	634.4	697.0	714.8	1036.5	1486.2	1212.2	920.3	747.6	694.0
85°	283.0	277.0	363.4	354.4	351.5	506.3	881.6	708.9	530.2	396.1	372.3
87.5°	71.5	68.5	89.4	74.5	89.4	77.4	80.4	20.8	3.0	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)