

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: P457553

Luminaire Tested: **GALN-SA8D-827-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457553
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-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 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: 45820 lumens
Efficiency: N/A
Efficacy: 92.9 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

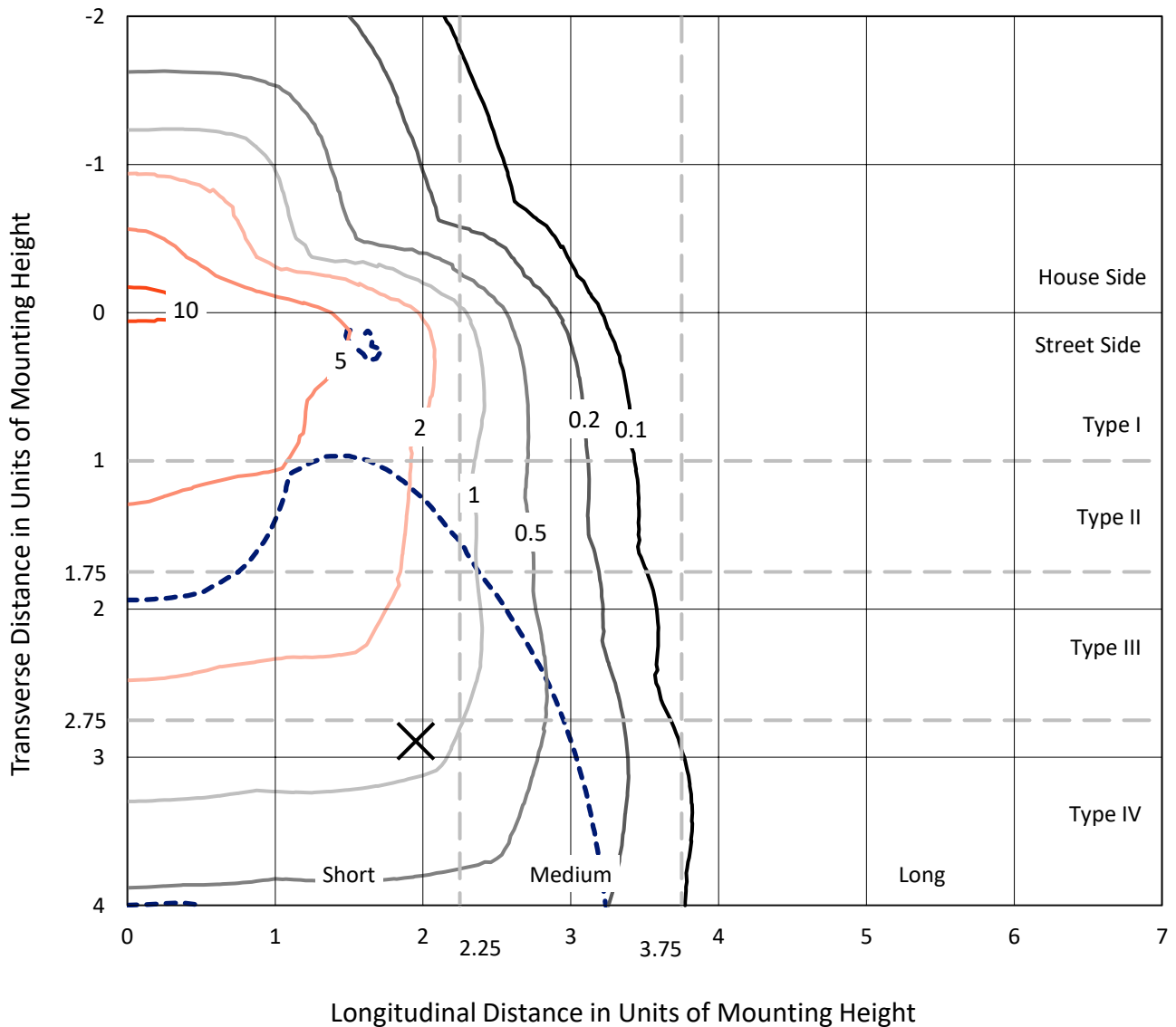
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

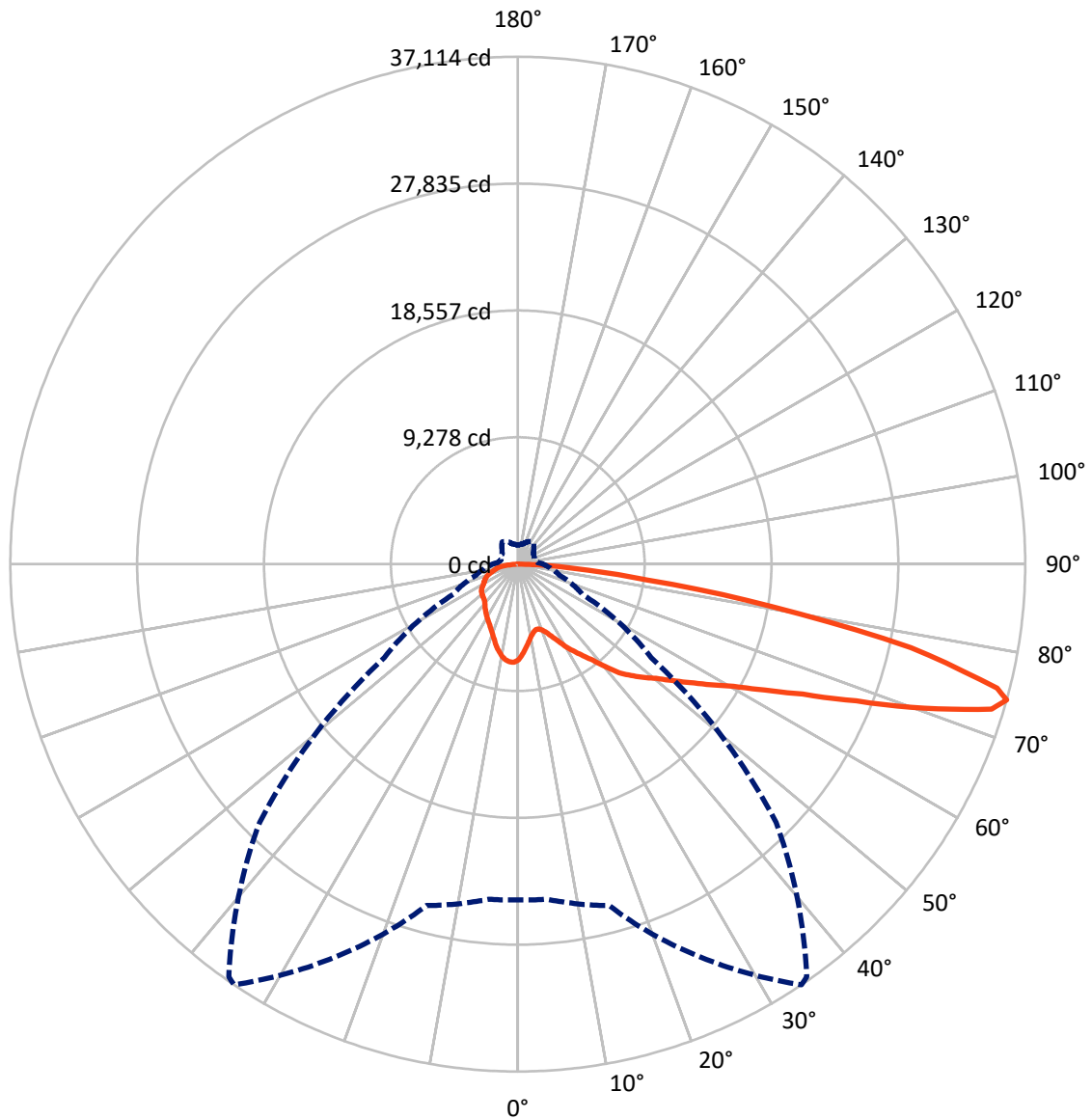
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	9750.8	0.0	9750.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	36069.2	0.0	36069.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	45820.0	0.0	45820.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.2	1.4
10°-20°	1741.7	3.8
20°-30°	2871.6	6.3
30°-40°	4301.3	9.4
40°-50°	6252.9	13.6
50°-60°	8733.8	19.1
60°-70°	10934.3	23.9
70°-80°	9041.8	19.7
80°-90°	1306.5	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°	45820.0	100.0
0°-180°	45820.0	100.0

Coefficient of Utilization



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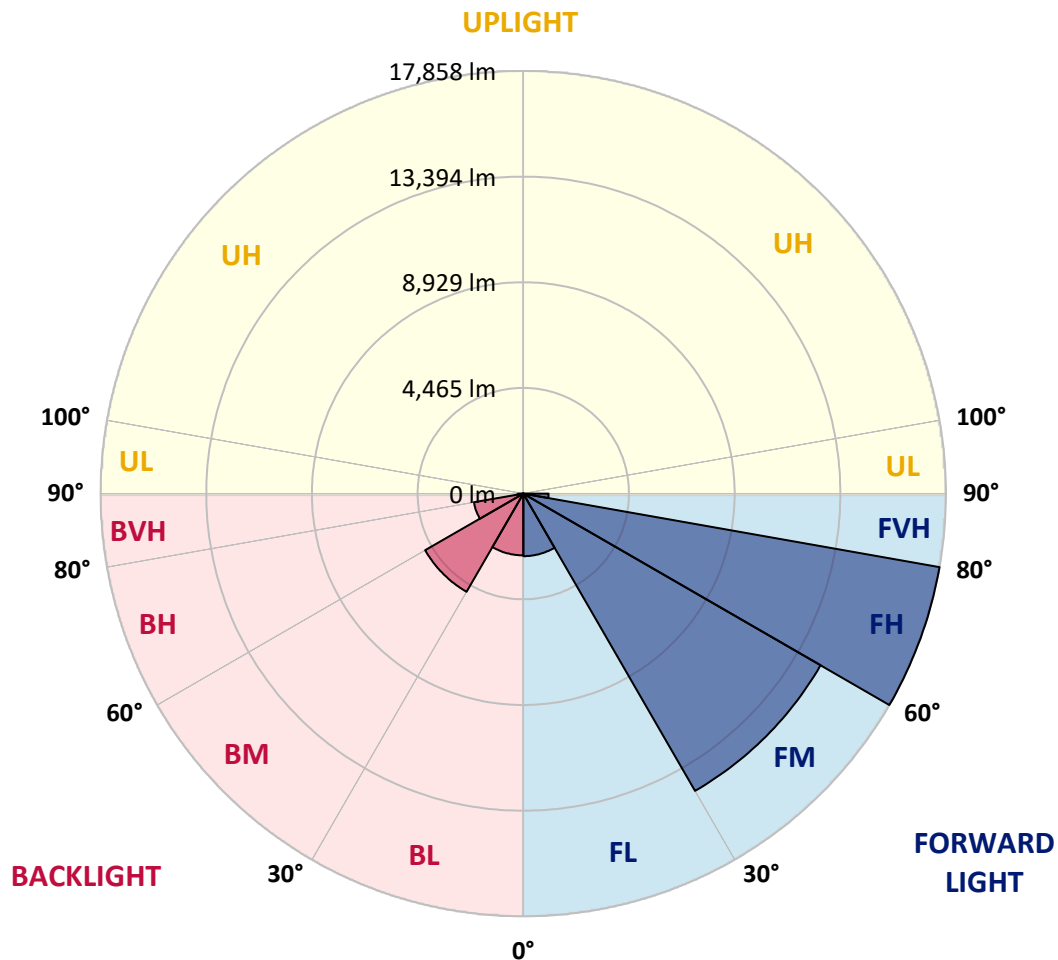
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2641.3	5.8			
FM	(30°-60°)	14499.3	31.6			
FH	(60°-80°)	17858.2	39.0			G5
FVH	(80°-90°)	1070.3	2.3			G5
BL	(0°-30°)	2608.2	5.7	B4/5000		
BM	(30°-60°)	4788.7	10.5	B3/5000		
BH	(60°-80°)	2117.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	236.2	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°	6995.8	6995.8	6995.8	6995.8	6995.8	6995.8	6995.8	6995.8	6995.8	6995.8	6995.8
2.5°	6465.3	6498.3	6516.1	6579.5	6594.7	6615.0	6668.4	6739.4	6830.8	6912.0	6983.1
5°	5927.1	5977.9	6008.4	6064.2	6173.4	6183.5	6325.7	6488.1	6673.4	6846.0	6988.2
7.5°	5416.9	5472.8	5498.2	5599.7	5744.4	5767.2	5975.4	6231.8	6541.4	6802.9	7021.2
10°	5033.6	5061.6	5117.4	5193.5	5366.2	5381.4	5653.0	5995.7	6396.7	6782.6	7077.0
12.5°	4825.5	4840.7	4853.4	4934.6	5104.7	5127.6	5411.9	5800.2	6282.5	6797.8	7168.4
15°	4855.9	4861.0	4805.2	4820.4	4957.5	4990.5	5272.2	5670.8	6211.4	6835.9	7305.5
17.5°	5112.3	5094.6	4957.5	4886.4	4982.9	4998.1	5244.3	5620.0	6178.4	6907.0	7447.6
20°	5515.9	5490.5	5254.5	5097.1	5152.9	5165.6	5335.7	5658.1	6211.4	7023.7	7668.5
22.5°	6018.5	6008.4	5650.5	5460.1	5457.5	5457.5	5546.4	5795.1	6310.4	7183.6	7899.5
25°	6721.7	6668.4	6201.3	5955.1	5886.5	5881.5	5871.3	6021.1	6437.4	7353.7	8173.6
27.5°	7442.6	7351.2	6934.9	6556.7	6409.4	6391.7	6325.7	6340.9	6599.8	7546.6	8485.8
30°	8089.9	8031.5	7640.6	7221.7	7046.6	7006.0	6823.2	6739.4	6871.4	7894.4	8983.4
32.5°	8584.8	8549.3	8244.7	7863.9	7605.0	7597.4	7330.9	7262.3	7295.3	8315.8	9552.0
35°	8985.9	8998.6	8843.8	8513.8	8216.8	8173.6	7995.9	7909.6	7813.2	8925.0	10267.8
37.5°	9534.2	9562.1	9552.0	9267.7	8904.7	8914.8	8874.2	8732.1	8475.7	9605.3	11062.3
40°	10138.3	10158.6	10156.1	10047.0	9856.6	9866.7	9851.5	9689.0	9305.7	10470.9	11945.7
42.5°	10973.5	10877.0	10625.7	10734.9	10846.5	10894.8	10998.9	10844.0	10318.6	11394.8	12775.7
45°	11907.6	11724.8	11156.2	11207.0	11620.8	11712.1	12285.8	12072.6	11417.7	12455.9	13753.0
47.5°	12496.5	12316.3	11836.5	11826.4	12374.7	12463.5	13478.9	13400.2	12417.8	13600.7	14946.1
50°	13021.9	12996.6	12455.9	12585.3	13120.9	13252.9	14778.5	14704.9	13415.4	14951.1	16245.7
52.5°	13801.2	13595.6	13164.1	13430.6	14138.8	14311.5	16068.0	15852.3	14331.8	16144.2	17507.3
55°	14151.5	14103.3	14077.9	14308.9	15281.1	15405.5	17322.0	16827.0	15113.6	17154.5	18466.8
57.5°	15088.2	14999.4	15250.7	15408.0	16626.5	16816.8	18631.8	17844.9	15799.0	17956.6	18933.9
60°	16301.6	16253.3	16484.3	16768.6	18129.2	18418.6	20124.4	18713.0	16349.8	18360.2	18677.5
62.5°	18114.0	18108.9	18065.7	18674.9	20258.9	20525.4	21837.8	19558.3	16436.1	18058.1	17352.4
65°	20713.3	20621.9	20246.2	20911.3	22909.0	23221.2	23622.3	20030.4	15915.7	16507.2	14611.0
67.5°	23431.9	23426.8	23122.2	23985.3	26714.0	27036.4	25853.5	19926.4	14471.4	13372.2	10376.9
70°	25686.0	25576.8	25965.2	28265.0	31575.1	31948.2	27805.5	18700.3	11526.8	8831.1	6165.8
72.5°	26226.7	26231.7	27038.9	31564.9	36243.2	36301.5	28508.7	15156.7	7714.2	4871.2	3084.1
74°	24561.5	24604.6	25856.1	31729.9	37113.8	36849.8	26711.5	11912.7	5216.4	3180.6	2223.6
75°	22419.1	22147.5	23957.3	30630.8	36210.2	35925.9	24607.2	9559.6	3980.2	2540.9	1946.9
77.5°	11986.3	12263.0	15055.2	22858.2	29417.4	29090.0	16684.8	4584.3	2150.0	1769.3	1401.2
80°	4267.0	4706.2	6615.0	11960.9	18860.3	18961.8	7962.9	2101.8	1512.9	1304.7	990.0
82.5°	1741.3	1789.6	2840.5	5307.8	9577.4	9668.7	3251.7	1248.9	1081.4	898.6	591.4
85°	680.3	700.6	1256.5	2386.1	4086.8	4353.3	1124.5	660.0	665.1	515.3	302.1
87.5°	228.5	258.9	515.3	794.5	1388.5	1360.6	327.5	195.5	238.6	223.4	93.9
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°	6995.8	6995.8	6995.8	6995.8	6995.8	6995.8	6995.8	6995.8	6995.8	6995.8	6995.8
2.5°	7018.7	7066.9	7099.9	7135.4	7168.4	7178.6	7171.0	7193.8	7196.3	7198.9	7201.4
5°	7059.3	7125.3	7188.7	7224.3	7239.5	7226.8	7183.6	7160.8	7140.5	7125.3	7130.3
7.5°	7115.1	7209.0	7267.4	7282.6	7242.0	7183.6	7077.0	6993.3	6940.0	6904.4	6901.9
10°	7201.4	7292.8	7341.0	7297.9	7186.2	7044.0	6876.5	6719.1	6599.8	6564.3	6561.7
12.5°	7310.6	7414.6	7412.1	7285.2	7089.7	6835.9	6564.3	6381.5	6219.1	6137.8	6170.8
15°	7452.7	7531.4	7457.8	7229.3	6919.7	6571.9	6236.8	5988.1	5805.3	5719.0	5724.1
17.5°	7617.7	7686.3	7490.8	7130.3	6681.0	6234.3	5845.9	5609.8	5465.2	5401.7	5396.6
20°	7823.3	7843.6	7490.8	6957.7	6373.9	5840.8	5470.2	5305.2	5224.0	5191.0	5201.2
22.5°	8044.2	8003.5	7450.2	6714.0	5970.3	5429.6	5180.9	5107.2	5066.6	5061.6	5066.6
25°	8292.9	8178.7	7366.4	6384.1	5548.9	5074.2	4929.6	4942.2	4949.9	4949.9	4967.6
27.5°	8597.5	8369.1	7226.8	5967.8	5056.5	4744.3	4703.6	4792.5	4833.1	4840.7	4853.4
30°	8998.6	8577.2	6995.8	5447.4	4637.6	4447.3	4518.3	4637.6	4683.3	4711.3	4706.2
32.5°	9475.8	8805.7	6683.6	4927.0	4300.0	4239.1	4325.4	4447.3	4498.0	4513.3	4493.0
35°	10036.8	9064.6	6272.4	4439.6	4005.6	4041.1	4142.7	4180.7	4226.4	4226.4	4236.6
37.5°	10640.9	9272.7	5769.8	3992.9	3777.1	3906.6	3980.2	3944.7	3924.4	3899.0	3911.7
40°	11255.2	9427.6	5117.4	3551.2	3548.7	3767.0	3787.3	3685.7	3604.5	3579.1	3566.4
42.5°	11790.8	9524.0	4528.5	3208.5	3332.9	3629.9	3645.1	3482.7	3353.2	3277.1	3251.7
45°	12422.9	9635.7	3952.3	2924.2	3132.4	3520.7	3558.8	3340.5	3150.1	2990.2	2949.6
47.5°	13288.5	9889.6	3497.9	2703.4	2987.7	3452.2	3505.5	3223.8	2972.5	2764.3	2731.3
50°	14265.8	10237.3	3145.1	2553.6	2876.0	3391.3	3457.3	3104.5	2807.5	2576.5	2551.1
52.5°	15161.8	10425.2	2840.5	2419.1	2766.8	3279.6	3393.8	3018.1	2645.0	2388.6	2365.8
55°	15651.7	10120.6	2540.9	2287.1	2617.1	3134.9	3305.0	2898.8	2487.6	2289.6	2256.6
57.5°	15717.7	9491.0	2269.3	2144.9	2459.7	2957.2	3140.0	2754.2	2386.1	2221.1	2193.2
60°	15207.5	8551.8	2058.6	2028.2	2299.8	2756.7	2954.7	2627.2	2282.0	2144.9	2117.0
62.5°	13938.3	7531.4	1911.4	1921.6	2137.3	2546.0	2817.6	2505.4	2183.0	2061.2	2035.8
65°	11755.3	6216.5	1769.3	1812.4	1992.6	2381.0	2693.2	2403.9	2084.0	1997.7	1974.9
67.5°	8166.0	4487.9	1652.5	1698.2	1855.6	2213.5	2548.5	2294.7	1972.3	1926.6	1891.1
70°	4520.9	2761.8	1515.4	1568.7	1713.4	2025.6	2386.1	2129.7	1809.9	1789.6	1738.8
72.5°	2375.9	1759.1	1360.6	1419.0	1520.5	1784.5	2137.3	1949.5	1650.0	1563.6	1497.7
74°	1855.6	1441.8	1256.5	1317.4	1386.0	1642.3	1990.1	1820.0	1535.7	1434.2	1383.4
75°	1617.0	1284.4	1167.7	1246.4	1307.3	1545.9	1875.9	1728.6	1472.3	1375.8	1330.1
77.5°	1142.3	962.1	954.4	1048.4	1081.4	1355.5	1690.6	1573.8	1312.3	1210.8	1167.7
80°	802.1	720.9	756.4	814.8	860.5	1198.1	1568.7	1360.6	1076.3	957.0	941.7
82.5°	522.9	472.1	540.7	594.0	609.2	883.4	1266.7	1033.1	784.4	637.1	591.4
85°	241.1	236.1	309.7	302.1	299.5	431.5	751.4	604.1	451.8	337.6	317.3
87.5°	60.9	58.4	76.2	63.5	76.2	66.0	68.5	17.8	2.5	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)