

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: P651582

Luminaire Tested: **GALN-SA8D-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46165 lumens
Efficiency: N/A
Efficacy: 93.6 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

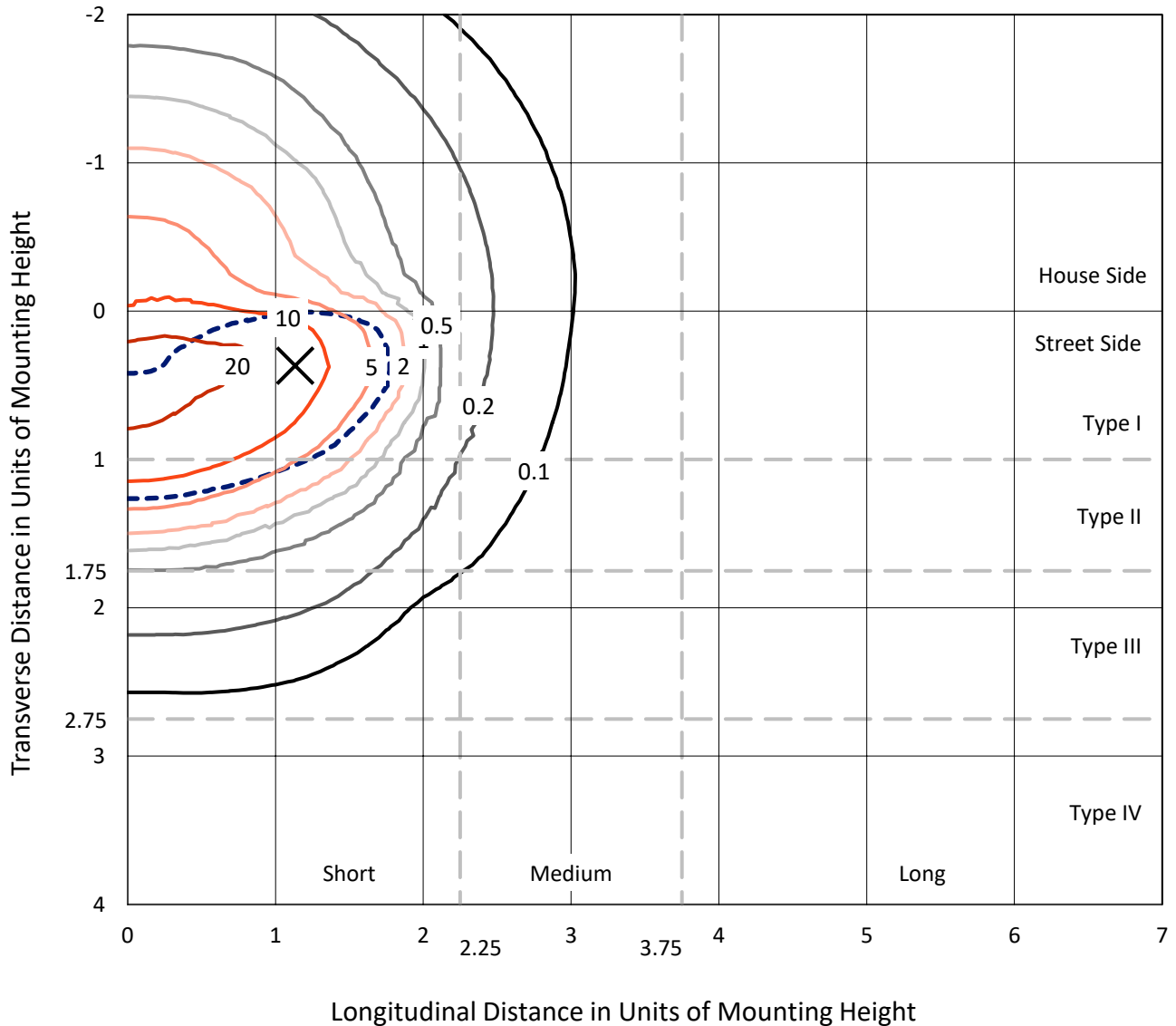
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

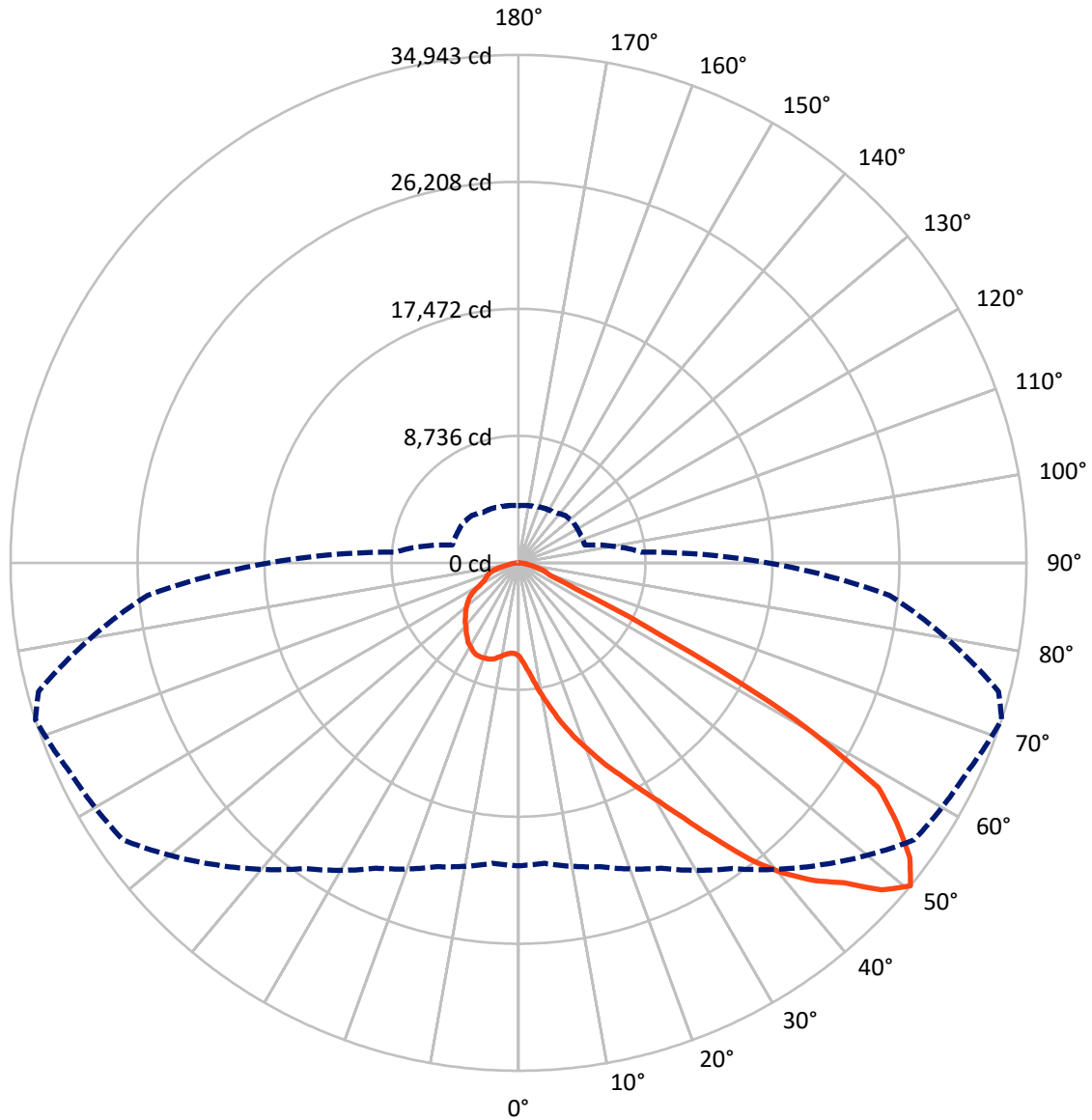
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10576.7	0.0	10576.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	35588.3	0.0	35588.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	46165.0	0.0	46165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	755.9	1.6
10°-20°	2825.9	6.1
20°-30°	5479.2	11.9
30°-40°	9077.2	19.7
40°-50°	12701.0	27.5
50°-60°	10714.9	23.2
60°-70°	3265.9	7.1
70°-80°	1145.8	2.5
80°-90°	199.2	0.4
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°	46165.0	100.0
0°-180°	46165.0	100.0

Coefficient of Utilization

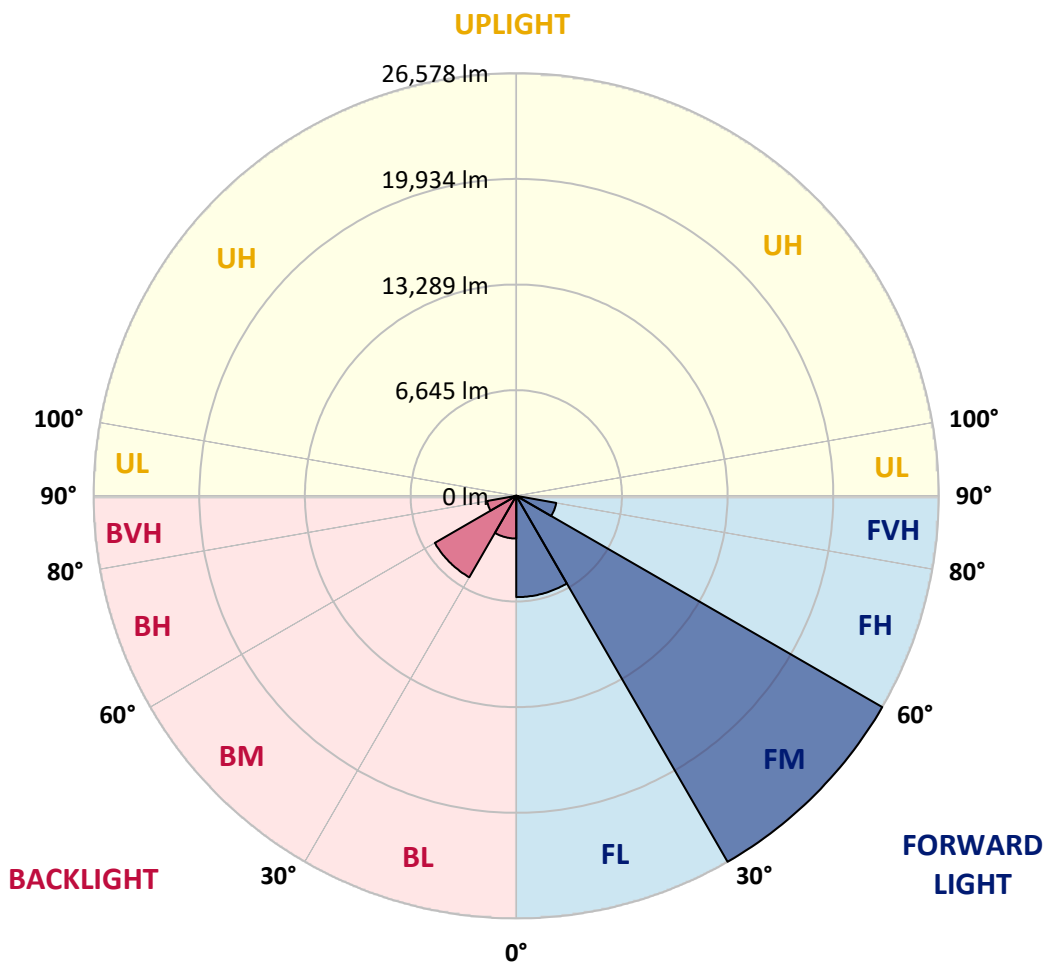


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6372.4	13.8			
FM (30°-60°)	26578.4	57.6			
FH (60°-80°)	2548.2	5.5			G2/5000
FVH (80°-90°)	89.2	0.2			G1/100
BL (0°-30°)	2688.6	5.8	B4/5000		
BM (30°-60°)	5914.7	12.8	B4/8500		
BH (60°-80°)	1863.4	4.0	B3/2500		G3/2500
BVH (80°-90°)	110.0	0.2			G2/225
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°	55°	65°	72°	75°	85°
0°	6426.6	6426.6	6426.6	6426.6	6426.6	6426.6	6426.6	6426.6	6426.6	6426.6	6426.6
2.5°	8266.0	8214.6	8060.3	8008.9	7826.1	7494.8	7380.5	7043.5	6900.7	6769.3	6615.1
5°	10453.9	10213.9	10196.8	9905.5	9482.8	9237.1	8505.9	8014.6	7563.4	7334.9	6912.1
7.5°	11847.8	11853.5	11853.5	11613.5	11276.5	10653.8	9996.9	9111.5	8431.6	8094.6	7374.8
10°	13173.0	13058.8	12996.0	12973.1	12744.6	12139.1	11436.4	10339.6	9408.5	9014.3	7723.3
12.5°	14109.9	14012.7	14155.5	14081.3	13915.7	13521.5	12858.8	11607.8	10442.4	9911.2	8283.1
15°	14555.4	14624.0	14738.3	14943.9	14869.6	14721.1	13990.0	12910.3	11556.3	10956.5	8780.1
17.5°	15240.9	15052.5	15189.6	15446.6	15652.3	15583.7	15166.7	13852.8	12658.9	11922.0	9448.5
20°	15720.8	15612.2	15680.8	15977.9	16132.1	16520.5	16303.5	15086.7	13715.7	12938.8	10236.8
22.5°	17091.8	16931.9	16709.1	16754.7	16811.9	17086.1	17137.5	16440.5	14943.9	14121.3	10985.1
25°	18782.7	18634.2	18371.4	18102.9	17937.3	17885.8	18062.9	17503.1	16120.7	15269.5	11790.6
27.5°	20645.0	20393.7	20228.0	19673.8	19228.3	19159.7	19074.0	18771.3	17514.5	16594.8	12698.8
30°	22455.9	22255.9	22033.1	21147.7	20685.0	20610.7	20188.0	20273.7	19028.4	18005.8	13727.1
32.5°	23826.9	23843.9	23335.6	22667.2	22233.0	21838.9	21684.7	21930.3	20970.6	20148.0	14875.4
35°	24935.1	24986.4	24500.9	23895.4	23427.0	23701.1	23632.6	23746.9	23289.9	22284.5	16212.0
37.5°	26014.7	25757.6	25237.8	24946.5	24700.8	25152.1	25734.9	25831.9	25917.6	24735.2	17765.9
40°	26191.9	26214.6	25911.9	26117.6	25809.1	26488.9	27842.7	27717.1	28065.5	27031.6	19451.1
42.5°	25940.5	25991.9	26111.9	26403.2	27145.8	27962.7	29973.5	29459.4	29882.1	28962.4	21090.5
45°	25529.1	25317.8	25466.3	26574.6	27859.9	29676.5	31921.4	31521.6	31384.4	30613.3	23044.2
47.5°	23564.1	23781.1	24243.8	25609.1	27540.0	29973.5	33303.9	33212.5	33623.8	33081.1	24820.9
50°	20839.2	20753.5	21644.6	23181.3	25671.9	29390.8	33229.6	34057.9	34943.4	34189.3	25614.8
52.5°	15606.5	16063.5	16829.0	18737.0	22290.2	26214.6	31607.3	32989.7	33709.5	33549.5	24975.1
55°	9865.5	10002.6	10465.3	12733.2	15932.2	21039.1	27094.4	30299.1	31584.4	32184.2	24386.6
57.5°	4792.8	4535.8	5101.3	6923.5	9202.8	14149.8	20896.3	26391.8	29185.1	30270.5	23107.1
60°	2502.1	2599.2	2822.0	3473.2	4758.5	7346.3	13024.5	17588.8	21856.0	23524.1	17514.5
62.5°	2073.7	2107.9	2256.4	2582.0	3164.8	4227.3	6649.4	8574.5	11145.1	12647.5	9962.6
65°	1759.5	1776.6	1936.6	2153.6	2524.9	2976.2	3421.8	3581.7	4335.8	4450.1	3541.8
67.5°	1468.1	1485.3	1656.6	1862.3	2102.2	2222.2	2336.4	2325.0	2410.6	2376.4	2370.7
70°	1131.1	1148.2	1325.3	1542.4	1662.3	1593.8	1947.9	2027.9	2062.2	2090.8	2136.5
72.5°	816.9	851.2	988.3	1142.5	1079.7	1239.6	1605.2	1725.1	1770.9	1788.1	1845.2
75°	594.1	605.5	639.8	594.1	685.5	862.6	1131.1	1279.6	1336.7	1353.8	1439.5
77.5°	262.8	268.4	274.2	342.8	439.8	537.0	674.1	794.1	874.1	896.8	919.7
80°	137.1	142.8	177.1	234.2	314.2	394.2	491.3	559.9	611.2	617.0	639.8
82.5°	85.7	91.4	125.6	165.7	222.8	291.3	359.9	417.1	457.0	462.7	468.4
85°	39.9	51.4	74.3	102.9	148.5	188.6	194.2	165.7	177.1	182.8	171.4
87.5°	11.4	17.2	22.9	17.2	22.9	22.9	28.6	34.3	34.3	34.3	39.9
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°	6426.6	6426.6	6426.6	6426.6	6426.6	6426.6	6426.6	6426.6	6426.6	6426.6	6426.6
2.5°	6529.4	6478.0	6278.1	6203.8	6009.5	6043.8	5941.0	5935.3	5912.4	5906.8	5901.0
5°	6689.3	6529.4	6289.5	6106.7	5998.1	5986.7	5912.4	5912.4	5935.3	5952.4	5912.4
7.5°	6952.1	6769.3	6363.8	6192.4	6095.2	6078.1	6026.7	5986.7	6038.1	6021.0	5975.3
10°	7254.9	6935.0	6506.6	6358.0	6198.1	6158.1	6158.1	6175.2	6089.5	6118.1	6072.4
12.5°	7591.9	7163.5	6689.3	6518.0	6329.5	6306.6	6295.1	6169.5	6215.2	6192.4	6078.1
15°	8020.4	7426.3	6923.5	6632.2	6472.3	6369.4	6220.9	6198.1	6169.5	6112.4	6061.0
17.5°	8483.1	7711.9	7032.1	6666.5	6426.6	6352.3	6238.0	6118.1	6032.4	6043.8	6003.8
20°	8877.3	7974.6	7072.1	6700.8	6392.3	6249.5	6072.4	5998.1	5906.8	5901.0	5895.3
22.5°	9345.6	8328.8	7129.2	6609.3	6289.5	6140.9	6021.0	5889.6	5826.8	5746.8	5786.8
25°	9905.5	8465.9	7140.6	6557.9	6215.2	5952.4	5889.6	5746.8	5723.9	5609.6	5632.5
27.5°	10311.1	8540.2	7049.3	6398.0	6043.8	5843.9	5729.6	5626.8	5586.8	5501.1	5478.3
30°	10853.8	8654.5	6855.0	6198.1	5872.5	5649.7	5581.1	5558.3	5444.0	5352.6	5341.2
32.5°	11470.7	8728.7	6729.3	5992.4	5695.3	5524.0	5558.3	5449.8	5306.9	5226.9	5204.1
35°	11962.0	8757.2	6415.1	5758.2	5575.4	5466.8	5426.9	5404.0	5198.4	5124.1	5067.0
37.5°	12710.3	8694.4	6152.3	5592.6	5444.0	5404.0	5369.8	5215.5	4981.3	4872.8	4792.8
40°	13584.3	8677.3	5815.3	5358.3	5318.3	5364.1	5261.2	5021.3	4695.6	4575.7	4518.6
42.5°	14424.1	8797.3	5604.0	5232.6	5181.2	5198.4	5055.6	4695.6	4535.8	4467.1	4375.8
45°	15829.3	9048.6	5255.5	5038.4	5015.6	5004.1	4832.8	4455.8	4364.4	4278.7	4261.5
47.5°	17097.5	8883.0	5032.7	4838.5	4861.3	4798.5	4432.9	4312.9	4210.1	4124.4	4095.8
50°	17171.8	8488.8	4718.5	4684.3	4690.0	4581.4	4232.9	4153.0	4021.6	3964.5	3924.5
52.5°	16783.3	7843.3	4427.2	4438.6	4455.8	4278.7	3987.3	3930.2	3821.7	3741.7	3718.8
55°	15692.2	6837.8	4141.6	4187.3	4232.9	3895.9	3804.5	3661.7	3576.0	3461.8	3467.5
57.5°	13824.3	5506.9	3741.7	3816.0	3913.1	3541.8	3473.2	3296.1	3170.4	3079.1	3067.6
60°	9265.7	3918.8	3141.9	3170.4	3387.5	3239.0	3233.3	3056.2	2884.8	2804.8	2759.2
62.5°	5466.8	2993.4	2713.4	2684.9	2679.2	2764.9	2907.7	2844.9	2622.1	2467.8	2513.5
65°	2861.9	2587.8	2524.9	2427.8	2370.7	2347.8	2456.4	2484.9	2336.4	2170.8	2159.4
67.5°	2404.9	2404.9	2353.5	2319.3	2239.3	2142.2	2073.7	1982.2	1959.4	1913.7	1856.6
70°	2187.9	2245.0	2227.9	2147.9	2079.4	1970.8	1793.7	1645.2	1502.4	1451.0	1485.3
72.5°	1908.0	1965.1	1965.1	1925.1	1833.7	1668.0	1496.6	1325.3	1205.3	1113.9	1102.6
75°	1468.1	1496.6	1565.2	1519.5	1399.6	1296.7	1119.6	942.6	828.3	742.6	725.4
77.5°	936.9	982.5	982.5	976.8	891.1	794.1	679.8	554.1	468.4	405.6	388.5
80°	622.7	651.2	674.1	651.2	594.1	519.8	434.1	348.4	285.6	234.2	222.8
82.5°	457.0	491.3	508.4	485.6	428.4	371.3	308.5	245.7	182.8	142.8	131.4
85°	177.1	182.8	205.6	245.7	239.9	234.2	188.6	137.1	102.9	74.3	68.5
87.5°	45.7	39.9	45.7	45.7	39.9	34.3	34.3	34.3	34.3	17.2	22.9
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)