

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: P532377

Luminaire Tested: **GALN-SA7D-727-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-727-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26910 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

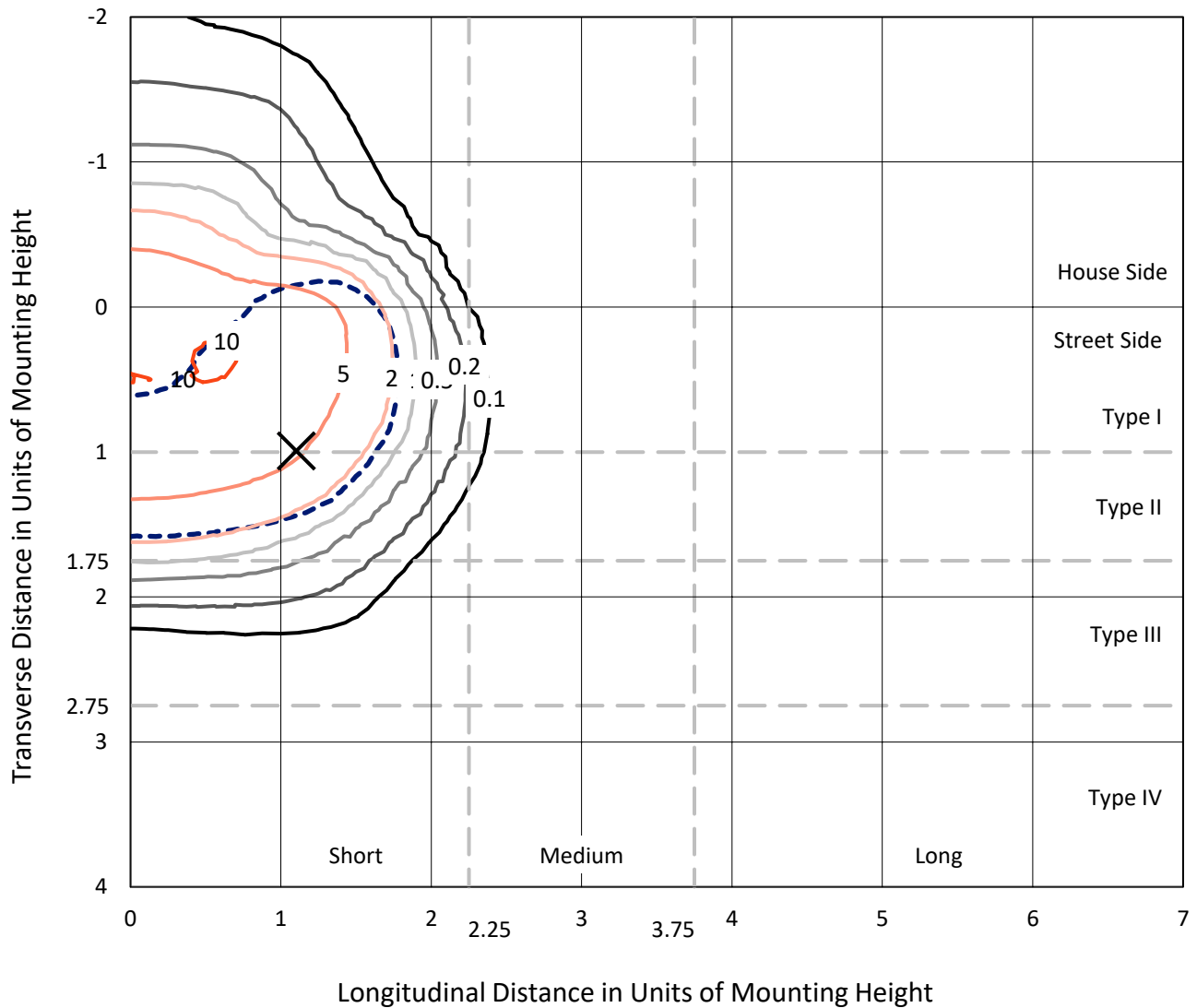
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

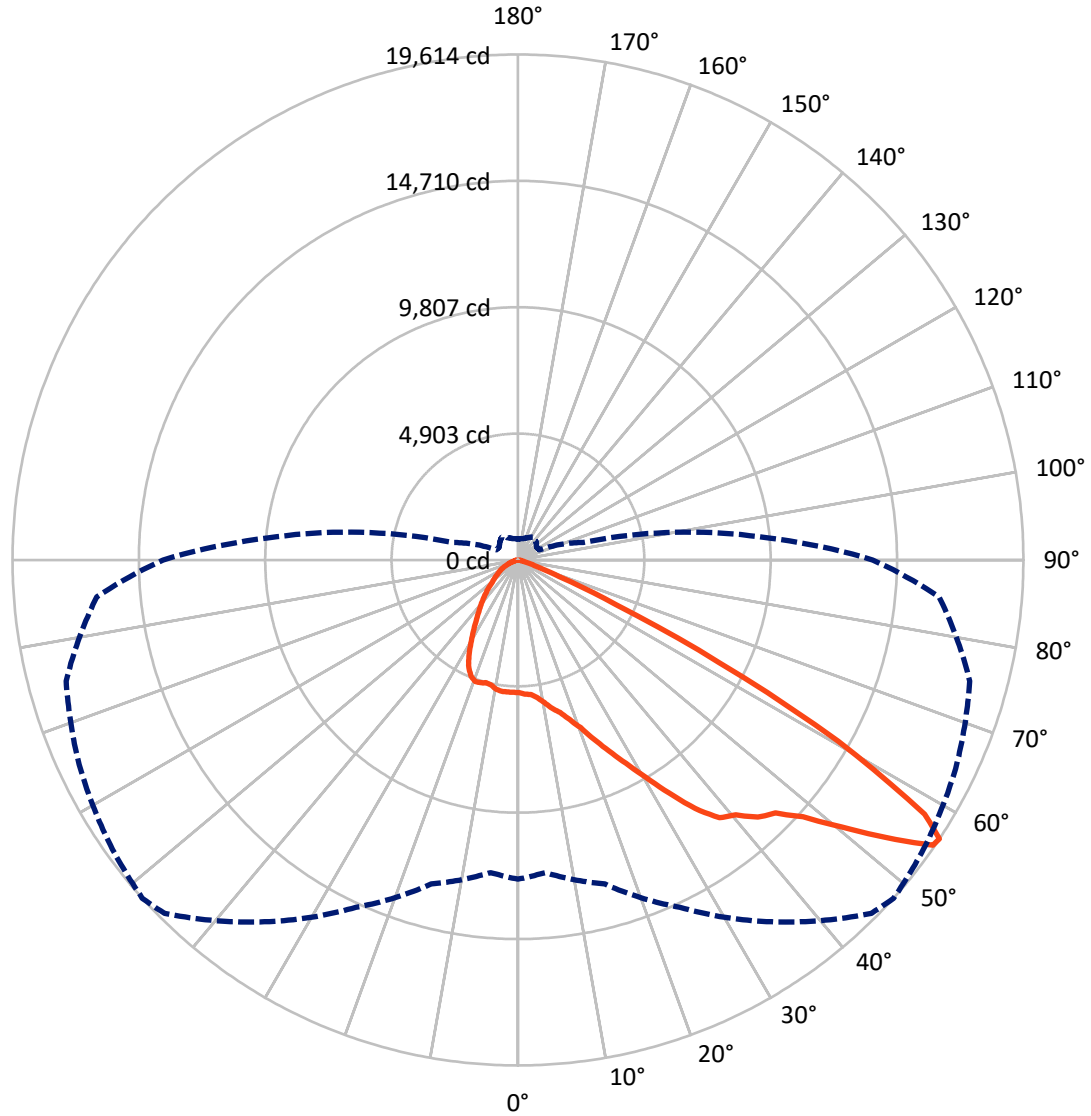
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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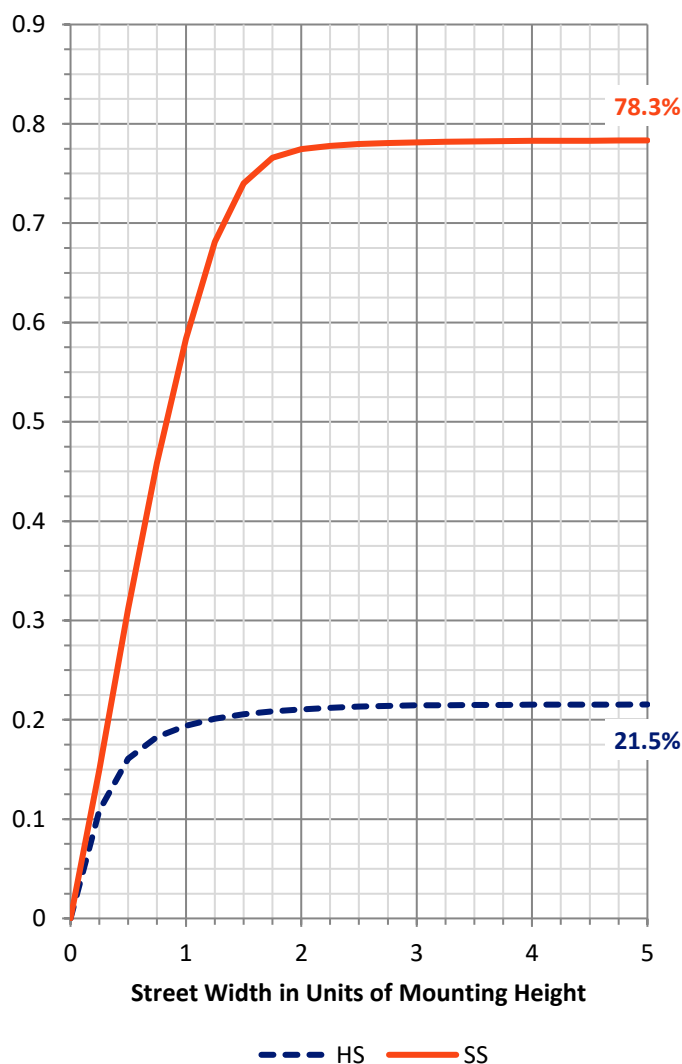
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5852.4	0.0	5852.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	21057.6	0.0	21057.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	26910.0	0.0	26910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.7	1.9
10°-20°	1600.1	5.9
20°-30°	2902.2	10.8
30°-40°	4558.8	16.9
40°-50°	6650.4	24.7
50°-60°	8012.5	29.8
60°-70°	2346.0	8.7
70°-80°	297.6	1.1
80°-90°	41.7	0.2
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°	26910.0	100.0
0°-180°	26910.0	100.0

Coefficient of Utilization



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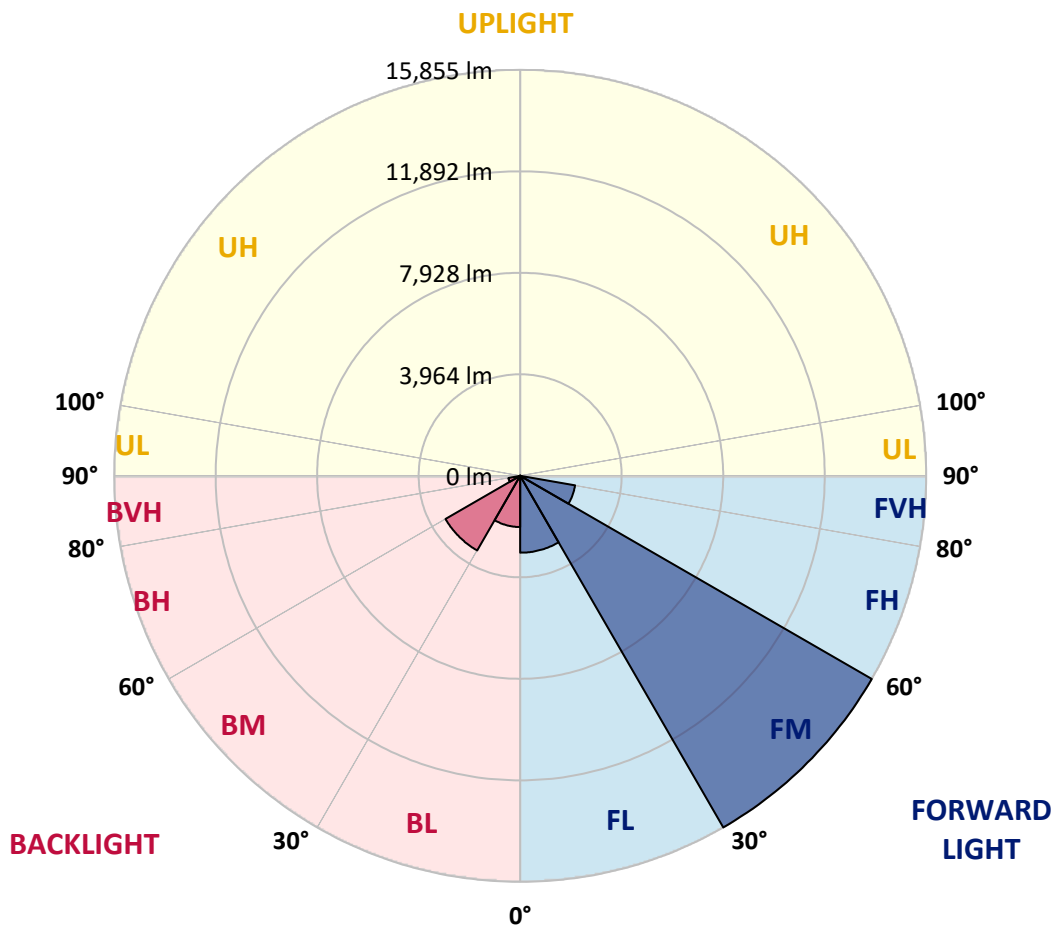
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3002.6	11.2			
FM (30°-60°)	15855.4	58.9			
FH (60°-80°)	2178.6	8.1			G2/5000
FVH (80°-90°)	21.0	0.1			G1/100
BL (0°-30°)	2000.3	7.4	B3/2500		
BM (30°-60°)	3366.3	12.5	B3/5000		
BH (60°-80°)	465.0	1.7	B1/500		G1/500
BVH (80°-90°)	20.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	5139.8	5139.8	5139.8	5139.8	5139.8	5139.8	5139.8	5139.8	5139.8	5139.8	5139.8
2.5°	5232.9	5208.4	5208.4	5169.2	5213.3	5193.7	5208.4	5159.4	5208.4	5134.9	5193.7
5°	5257.4	5262.3	5242.7	5267.2	5267.2	5296.6	5247.6	5291.7	5316.2	5262.3	5237.8
7.5°	5384.8	5394.6	5389.7	5370.1	5409.3	5404.4	5399.5	5365.2	5375.0	5355.4	5326.0
10°	5634.7	5629.8	5654.3	5605.3	5575.9	5610.2	5620.0	5566.1	5526.9	5512.2	5419.1
12.5°	5997.3	5938.5	5904.2	5855.2	5869.9	5820.9	5909.1	5816.0	5796.4	5708.2	5615.1
15°	6291.3	6281.5	6286.4	6208.0	6119.8	6139.4	6139.4	6090.4	6061.0	5953.2	5820.9
17.5°	6893.9	6688.1	6732.2	6634.2	6560.7	6555.8	6511.7	6521.5	6443.2	6217.8	6016.9
20°	7364.3	7276.1	7207.5	7040.9	6928.2	6962.5	6942.9	6893.9	6869.4	6575.4	6291.3
22.5°	7785.7	7815.1	7702.4	7658.3	7501.5	7516.2	7555.4	7511.3	7325.1	7021.3	6599.9
25°	8378.5	8344.2	8192.4	8138.5	7991.5	8045.4	8197.3	8163.0	8045.4	7496.6	6840.0
27.5°	9079.2	8961.6	8991.0	8746.0	8603.9	8755.8	8937.1	9108.6	8775.4	8055.2	7124.2
30°	9574.1	9451.6	9441.8	9432.0	9397.7	9574.1	9784.8	9941.6	9672.1	8613.7	7594.6
32.5°	9819.1	9848.5	9931.8	9902.4	10201.2	10563.8	10784.3	11009.7	10671.6	9525.1	8216.9
35°	10470.7	10284.5	10470.7	10490.3	10799.0	11568.3	11847.6	12386.5	12303.2	10813.7	8976.3
37.5°	10852.9	10838.2	10862.7	11048.9	11347.8	12298.3	12695.2	13111.7	12954.9	11587.9	9922.0
40°	11485.0	11524.2	11519.3	11661.4	11989.7	12847.1	13008.8	13346.9	13361.6	12660.9	11313.5
42.5°	12499.2	12342.4	12239.5	12386.5	12847.1	13322.4	13645.8	13577.2	14062.2	13964.2	13101.9
45°	13410.6	13503.7	13351.8	13596.8	13763.4	14018.1	14008.3	14155.3	14772.7	15238.2	14449.3
47.5°	14263.1	14321.9	14395.4	14562.0	14924.6	14963.8	14880.5	14816.8	15669.4	16149.5	15493.0
50°	14772.7	14826.6	15169.6	15468.5	16144.6	16232.8	16281.8	16120.1	16698.3	16752.2	16477.8
52.5°	14635.5	14694.3	15174.5	16159.3	17237.3	18045.7	17898.7	17624.3	17590.0	17800.7	17389.2
55°	13420.4	13366.5	14027.9	15561.6	17580.2	19520.5	19540.1	19251.1	18697.4	18555.3	17252.0
56°	12386.5	12175.8	13018.6	14870.7	17139.3	19393.1	19613.6	19305.0	18785.6	18148.6	16404.3
57.5°	10147.4	10348.2	11186.1	12719.7	15615.5	18476.9	18604.3	18530.8	18138.8	17070.7	14434.6
60°	5595.5	5948.3	6688.1	8564.7	11117.5	14179.8	14282.7	14880.5	14954.0	13072.5	9931.8
62.5°	2376.4	2337.2	3106.4	4488.2	6330.5	8559.8	8750.9	9363.4	9476.1	7535.8	4983.0
65°	965.2	1019.1	1406.2	2258.8	3346.5	3900.2	4169.7	4370.6	4742.9	3111.3	1837.4
67.5°	637.0	632.1	828.1	1288.6	1803.1	1739.4	1739.4	1837.4	1700.2	1269.0	793.8
70°	455.7	470.4	592.9	891.8	1122.0	833.0	798.7	764.4	867.3	837.9	641.9
72.5°	298.9	318.5	396.9	534.1	583.1	455.7	455.7	548.8	715.4	676.2	524.3
75°	196.0	200.9	245.0	308.7	289.1	235.2	259.7	367.5	519.4	499.8	372.4
77.5°	132.3	137.2	166.6	200.9	161.7	132.3	142.1	186.2	254.8	254.8	196.0
80°	49.0	53.9	68.6	63.7	73.5	93.1	102.9	127.4	151.9	151.9	132.3
82.5°	0.0	4.9	14.7	34.3	53.9	73.5	83.3	98.0	112.7	127.4	122.5
85°	0.0	4.9	14.7	24.5	39.2	44.1	49.0	34.3	29.4	29.4	24.5
87.5°	0.0	0.0	4.9	4.9	4.9	4.9	4.9	4.9	9.8	4.9	4.9
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°	5139.8	5139.8	5139.8	5139.8	5139.8	5139.8	5139.8	5139.8	5139.8	5139.8	5139.8
2.5°	5139.8	5134.9	5134.9	5120.2	5149.6	5134.9	5144.7	5139.8	5076.1	5125.1	5090.8
5°	5193.7	5228.0	5174.1	5164.3	5125.1	5139.8	5139.8	5090.8	5134.9	5130.0	5120.2
7.5°	5330.9	5272.1	5213.3	5154.5	5144.7	5130.0	5076.1	5056.5	5090.8	5051.6	5110.4
10°	5389.7	5399.5	5311.3	5232.9	5159.4	5056.5	4983.0	4938.9	4885.0	4943.8	4978.1
12.5°	5659.2	5561.2	5409.3	5286.8	5036.9	4934.0	4860.5	4840.9	4934.0	4953.6	4919.3
15°	5752.3	5737.6	5541.6	5267.2	5007.5	4885.0	4899.7	4860.5	4870.3	4821.3	4831.1
17.5°	5943.4	5776.8	5546.5	5203.5	5002.6	4973.2	4885.0	4728.2	4640.0	4600.9	4635.1
20°	6154.1	5992.4	5659.2	5228.0	5046.7	4968.3	4679.2	4488.2	4306.9	4208.9	4213.8
22.5°	6340.3	6139.4	5610.2	5237.8	5085.9	4762.5	4414.7	4037.4	3812.0	3660.1	3665.0
25°	6565.6	6281.5	5629.8	5257.4	4983.0	4434.3	3934.5	3567.0	3297.5	3194.6	3228.9
27.5°	6693.0	6369.7	5737.6	5301.5	4713.5	3968.8	3429.8	3086.8	2930.0	2881.0	2876.1
30°	7075.2	6565.6	5869.9	5213.3	4262.8	3469.0	2969.2	2758.6	2606.7	2562.6	2572.4
32.5°	7643.6	6923.3	6041.4	4983.0	3802.2	3023.1	2670.4	2513.6	2371.5	2288.2	2278.4
35°	8118.9	7535.8	6222.7	4625.3	3268.1	2680.2	2459.7	2263.7	2048.1	1955.0	1930.5
37.5°	9025.3	8226.7	6183.5	4086.4	2758.6	2425.4	2234.3	1994.2	1808.0	1680.6	1665.9
40°	10230.6	9035.1	5992.4	3429.8	2381.3	2200.0	1994.2	1763.9	1533.6	1425.8	1416.0
42.5°	11695.7	10024.9	5644.5	2763.5	2004.0	1974.6	1788.4	1523.8	1318.0	1239.6	1244.5
45°	12886.3	10872.5	5291.7	2219.6	1724.7	1754.1	1592.4	1342.5	1200.4	1136.7	1136.7
47.5°	13944.6	11445.8	4909.5	1832.5	1465.0	1533.6	1391.5	1244.5	1122.0	1073.0	1063.2
50°	14963.8	12028.8	4527.4	1484.6	1249.4	1318.0	1303.3	1185.7	1087.7	1028.9	1033.8
52.5°	15600.8	12121.9	4042.3	1215.1	1092.6	1171.0	1220.0	1112.2	1004.4	970.1	960.3
55°	14821.7	10921.5	3135.8	999.5	926.0	1028.9	1122.0	999.5	916.3	857.5	852.6
56°	13773.2	9765.2	2621.4	921.2	877.1	989.7	1087.7	955.4	862.4	828.1	803.6
57.5°	11661.4	7991.5	1935.4	818.3	813.4	921.2	1033.8	911.4	803.6	774.2	774.2
60°	7271.2	4498.0	1171.0	686.0	705.6	818.3	930.9	813.4	715.4	715.4	730.1
62.5°	3312.2	1871.7	710.5	583.1	607.6	705.6	828.1	735.0	681.1	735.0	744.8
65°	1126.9	808.5	514.5	465.5	480.2	583.1	710.5	744.8	739.9	774.2	793.8
67.5°	632.1	519.4	431.2	387.1	377.3	431.2	583.1	744.8	715.4	700.7	710.5
70°	534.1	441.0	382.2	343.0	328.3	347.9	450.8	563.5	504.7	490.0	480.2
72.5°	431.2	367.5	333.2	308.7	264.6	225.4	205.8	215.6	240.1	254.8	279.3
75°	303.8	279.3	279.3	249.9	191.1	142.1	112.7	93.1	63.7	44.1	49.0
77.5°	171.5	171.5	176.4	151.9	122.5	93.1	68.6	49.0	24.5	9.8	4.9
80°	117.6	127.4	137.2	122.5	102.9	83.3	58.8	34.3	14.7	0.0	0.0
82.5°	117.6	132.3	142.1	122.5	102.9	78.4	58.8	34.3	14.7	4.9	0.0
85°	24.5	29.4	34.3	39.2	58.8	58.8	44.1	29.4	14.7	4.9	0.0
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	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)