

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: P531755

Luminaire Tested: **GALN-SA7A-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-740-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19372 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

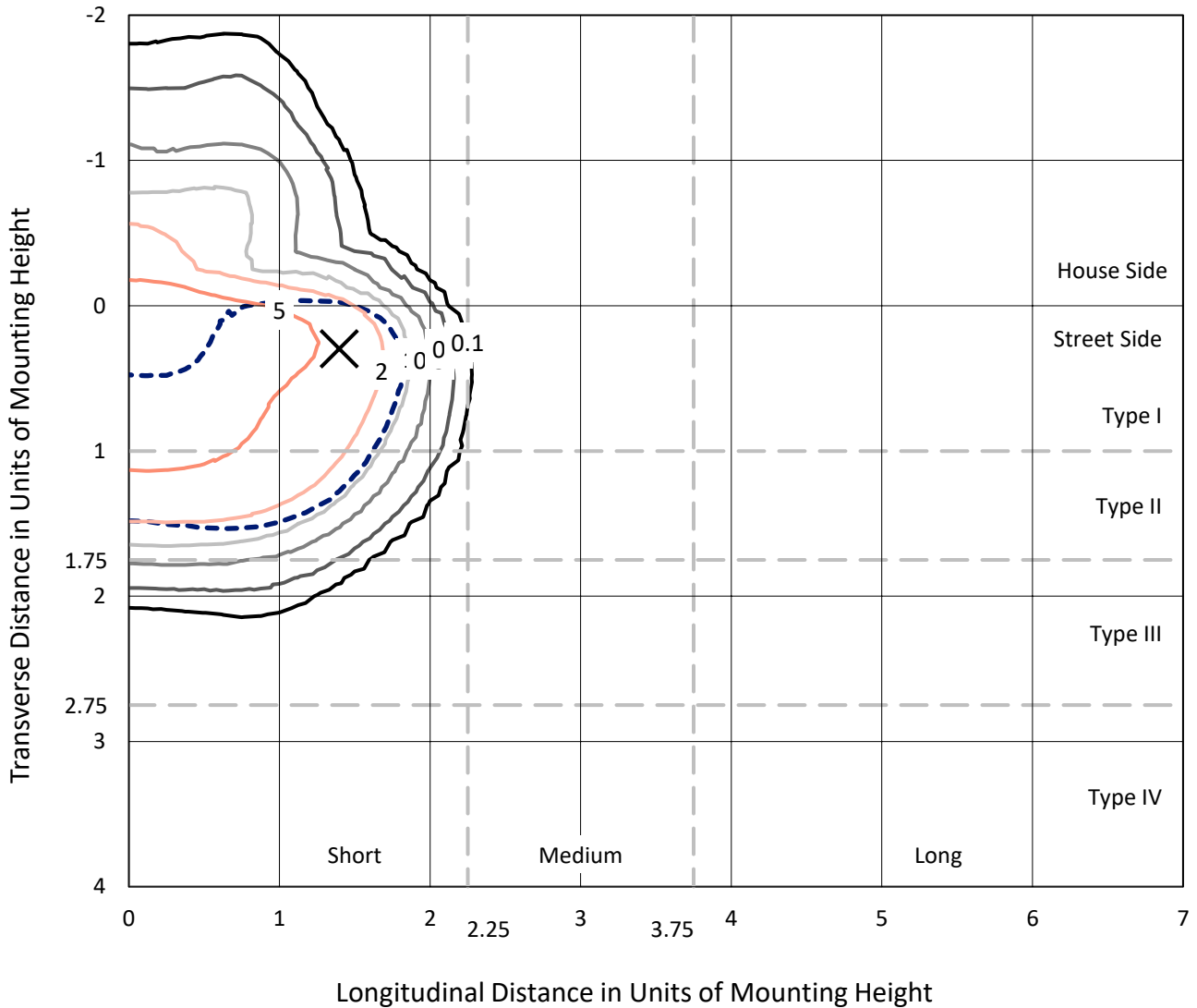
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

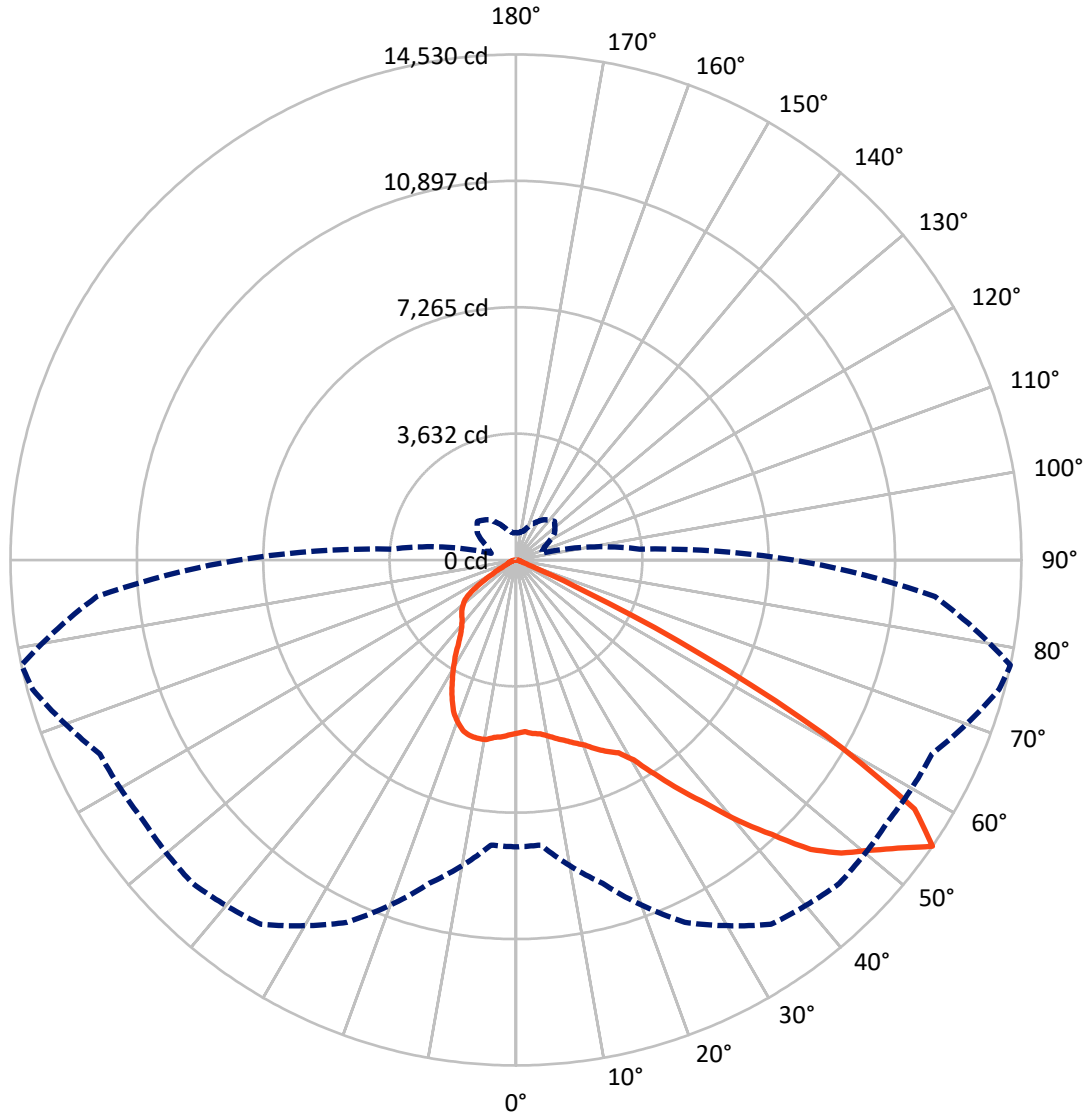
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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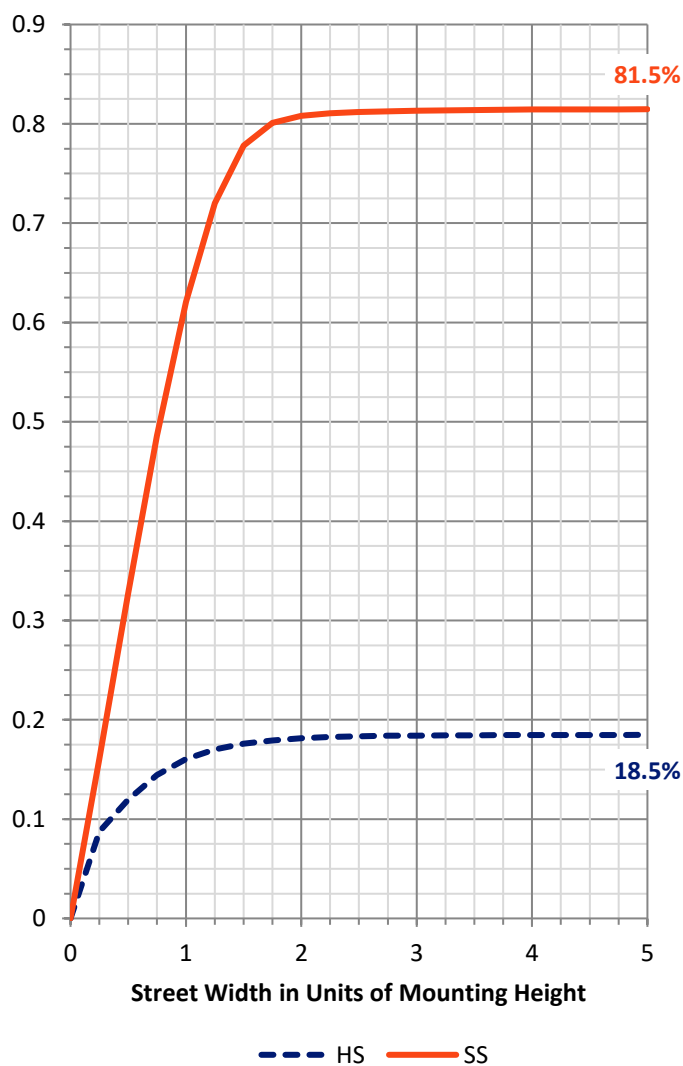
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3598.1	0.0	3598.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	15773.9	0.0	15773.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	19372.0	0.0	19372.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.1	2.3
10°-20°	1175.3	6.1
20°-30°	2060.2	10.6
30°-40°	3396.9	17.5
40°-50°	4943.0	25.5
50°-60°	5600.9	28.9
60°-70°	1601.4	8.3
70°-80°	124.3	0.6
80°-90°	25.9	0.1
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°	19372.0	100.0
0°-180°	19372.0	100.0

Coefficient of Utilization



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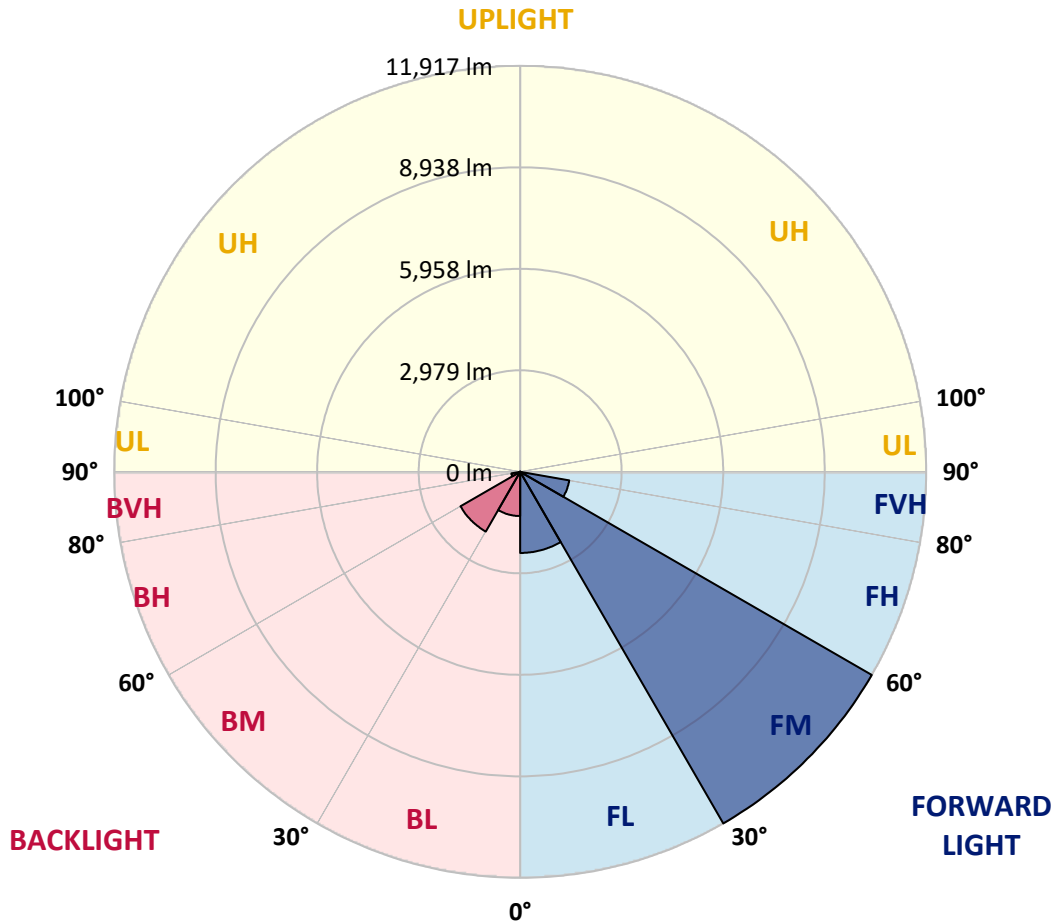
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2381.4	12.3			
FM (30°-60°)	11916.8	61.5			
FH (60°-80°)	1463.1	7.6			G1/1800
FVH (80°-90°)	12.6	0.1			G1/100
BL (0°-30°)	1298.2	6.7	B3/2500		
BM (30°-60°)	2024.0	10.4	B2/2500		
BH (60°-80°)	262.6	1.4	B1/500		G1/500
BVH (80°-90°)	13.3	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6
2.5°	4682.7	4727.7	4734.6	4790.1	4786.6	4880.1	4907.8	4911.3	4973.6	4942.5	5022.1
5°	4551.1	4526.8	4516.4	4613.4	4641.1	4724.3	4793.5	4835.1	4963.2	5008.3	5091.4
7.5°	4433.3	4433.3	4440.2	4526.8	4516.4	4623.8	4696.5	4824.7	5011.7	5049.8	5150.3
10°	4319.0	4277.5	4329.4	4419.5	4495.7	4544.1	4696.5	4817.8	5036.0	5146.8	5285.3
12.5°	4260.1	4280.9	4287.8	4353.7	4436.8	4582.2	4665.4	4866.3	5209.1	5275.0	5423.9
15°	4630.7	4589.2	4488.7	4429.9	4499.1	4568.4	4776.2	4980.6	5299.2	5392.7	5559.0
17.5°	5060.2	5025.6	4942.5	4783.1	4627.3	4755.4	4918.2	5105.2	5396.2	5534.7	5780.6
20°	5621.3	5565.9	5482.8	5171.0	5036.0	4897.4	5070.6	5292.3	5555.5	5680.2	5933.0
22.5°	6289.8	6289.8	6102.7	5725.2	5444.7	5313.1	5385.8	5513.9	5732.1	5901.9	6151.2
25°	6985.9	6965.2	6795.4	6404.1	5929.6	5773.7	5856.8	5946.9	6005.8	6099.3	6265.5
27.5°	7782.5	7661.3	7446.6	7013.6	6594.6	6293.2	6383.3	6303.6	6230.9	6279.4	6518.4
30°	8322.9	8399.1	8125.4	7709.8	7315.0	6979.0	6996.3	6927.1	6594.6	6663.8	6805.8
32.5°	8883.9	8932.4	8780.0	8551.4	8156.6	7765.2	7623.2	7564.3	7315.0	7346.1	7207.6
35°	9351.5	9445.0	9310.0	9209.5	9095.2	8780.0	8388.7	8579.2	8177.4	8101.2	7741.0
37.5°	9781.0	9753.3	9912.6	9808.7	9784.5	9562.8	9133.3	9171.4	8901.3	8883.9	8468.3
40°	10165.5	10172.4	10390.6	10439.1	10342.1	9947.3	9323.8	9625.1	9843.3	9864.1	9330.7
42.5°	10484.1	10577.6	10764.6	11156.0	11010.6	10352.5	9521.2	9850.3	10660.7	10788.9	10148.1
45°	10761.2	10951.7	11183.7	11533.5	11450.4	10927.4	10013.1	10314.4	11533.5	11869.5	10917.0
47.5°	10778.5	11027.9	11280.7	11800.2	11904.1	11235.7	10522.2	11048.7	12226.3	12589.9	11478.1
50°	10709.2	10840.8	11346.5	11911.1	12146.6	11737.9	11235.7	11665.2	12898.2	13126.8	11762.1
52.5°	9888.4	9988.8	11003.6	12015.0	12583.0	12305.9	12181.2	12524.1	13584.0	13753.7	12028.8
55°	8243.2	8225.9	9621.7	11492.0	12783.9	13147.6	13071.4	13192.6	14377.1	14529.5	12094.6
57.5°	5638.6	5953.8	7159.1	9569.7	11554.3	12950.1	13029.8	12828.9	13452.3	13511.2	10543.0
60°	3041.0	3172.6	4142.4	6386.7	8797.4	10553.4	10761.2	10397.5	10349.0	10182.8	7526.2
62.5°	1208.8	1274.6	1825.3	3162.2	4793.5	6414.5	6861.2	6712.3	6393.7	5957.3	3896.5
65°	574.9	616.5	907.4	1478.9	2126.6	2673.8	3120.6	3259.2	2403.7	2164.7	1285.0
67.5°	391.4	422.6	661.5	845.1	758.5	793.1	1032.1	959.4	564.6	481.4	356.7
70°	297.9	318.6	529.9	574.9	339.4	239.0	266.7	249.4	232.1	235.5	232.1
72.5°	211.3	228.6	387.9	339.4	148.9	110.8	142.0	169.7	169.7	169.7	166.2
75°	128.2	145.5	225.1	131.6	58.9	58.9	90.1	114.3	121.2	124.7	117.8
77.5°	65.8	83.1	76.2	38.1	38.1	45.0	65.8	79.7	86.6	86.6	83.1
80°	13.9	13.9	13.9	20.8	38.1	48.5	65.8	72.7	83.1	83.1	76.2
82.5°	0.0	3.5	10.4	20.8	34.6	45.0	62.3	72.7	83.1	86.6	79.7
85°	0.0	3.5	6.9	13.9	24.2	27.7	24.2	20.8	20.8	20.8	20.8
87.5°	0.0	0.0	3.5	3.5	3.5	6.9	6.9	6.9	6.9	6.9	6.9
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°	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6	4980.6
2.5°	5029.0	5039.4	5022.1	5018.7	5004.8	5046.4	4945.9	4921.7	4984.0	4925.1	4939.0
5°	5094.8	5119.1	5087.9	5036.0	4959.8	4842.0	4741.6	4610.0	4547.6	4502.6	4495.7
7.5°	5143.3	5160.7	5129.5	4963.2	4734.6	4436.8	4215.1	4052.3	3924.2	3886.1	3823.7
10°	5340.8	5344.2	5188.4	4821.2	4374.4	3983.1	3643.6	3394.3	3266.1	3186.4	3151.8
12.5°	5472.4	5465.4	5150.3	4540.7	3945.0	3425.4	3037.5	2736.2	2618.4	2580.3	2556.1
15°	5638.6	5600.5	5060.2	4253.2	3390.8	2829.7	2479.9	2272.1	2261.7	2237.4	2261.7
17.5°	5770.2	5662.9	4928.6	3730.2	2860.9	2331.0	2102.4	2116.2	2143.9	2168.2	2171.6
20°	5985.0	5763.3	4627.3	3273.0	2369.1	1998.5	1995.0	2057.3	2126.6	2154.3	2182.0
22.5°	6147.8	5804.9	4305.2	2784.7	1967.3	1863.4	1922.3	2015.8	2067.7	2095.4	2137.0
25°	6206.6	5690.6	3875.7	2296.3	1773.3	1801.0	1891.1	1953.4	2019.2	2050.4	2033.1
27.5°	6265.5	5631.7	3363.1	1891.1	1669.4	1759.5	1835.7	1898.0	1918.8	1960.4	1988.1
30°	6407.5	5427.3	2902.4	1634.8	1617.5	1731.8	1787.2	1808.0	1863.4	1887.6	1887.6
32.5°	6521.8	5347.7	2414.1	1513.6	1610.5	1745.6	1752.5	1752.5	1759.5	1742.2	1735.2
35°	6757.3	5074.1	1977.7	1440.8	1607.1	1749.1	1766.4	1707.5	1548.2	1485.9	1468.5
37.5°	7048.3	4897.4	1655.6	1423.5	1631.3	1790.6	1818.4	1596.7	1388.9	1288.4	1271.1
40°	7401.6	4772.7	1444.3	1416.6	1686.7	1887.6	1804.5	1510.1	1239.9	1094.5	1087.5
42.5°	7813.7	4658.4	1302.3	1413.1	1756.0	1988.1	1790.6	1437.4	1087.5	990.6	1004.4
45°	8142.8	4596.1	1205.3	1388.9	1780.3	2046.9	1801.0	1309.2	1025.2	962.9	969.8
47.5°	8399.1	4464.5	1125.6	1347.3	1776.8	2067.7	1707.5	1257.3	994.0	1011.4	1028.7
50°	8406.0	4287.8	1025.2	1257.3	1724.8	2029.6	1600.1	1208.8	987.1	1059.8	1094.5
52.5°	8312.5	4038.5	917.8	1129.1	1603.6	1898.0	1503.2	1188.0	955.9	949.0	990.6
55°	7980.0	3570.9	737.7	914.4	1354.2	1565.5	1416.6	1149.9	862.4	782.8	789.7
57.5°	6449.1	2559.5	543.8	654.6	959.4	1146.4	1278.0	1132.6	775.8	665.0	668.5
60°	3993.4	1451.2	398.3	446.8	592.3	696.2	1035.6	1052.9	692.7	561.1	554.2
62.5°	2050.4	717.0	308.3	315.2	363.7	408.7	710.0	883.2	626.9	533.4	533.4
65°	685.8	353.3	270.2	242.4	242.4	252.8	429.5	613.0	529.9	446.8	446.8
67.5°	294.4	263.2	235.5	211.3	194.0	183.6	242.4	356.7	394.8	339.4	325.6
70°	228.6	221.7	204.3	176.6	152.4	138.5	142.0	183.6	225.1	218.2	211.3
72.5°	169.7	169.7	162.8	138.5	117.8	100.4	93.5	97.0	107.4	110.8	114.3
75°	117.8	121.2	121.2	107.4	86.6	72.7	62.3	52.0	41.6	34.6	31.2
77.5°	79.7	83.1	90.1	79.7	65.8	48.5	38.1	27.7	17.3	6.9	6.9
80°	69.3	79.7	86.6	79.7	69.3	52.0	38.1	20.8	10.4	0.0	0.0
82.5°	72.7	79.7	90.1	76.2	65.8	48.5	38.1	24.2	10.4	3.5	0.0
85°	17.3	17.3	20.8	24.2	31.2	34.6	27.7	17.3	10.4	3.5	0.0
87.5°	6.9	6.9	6.9	6.9	6.9	3.5	3.5	3.5	3.5	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)