

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: P533621

Luminaire Tested: **GALN-SA9A-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24456 lumens
Efficiency: N/A
Efficacy: 89.3 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

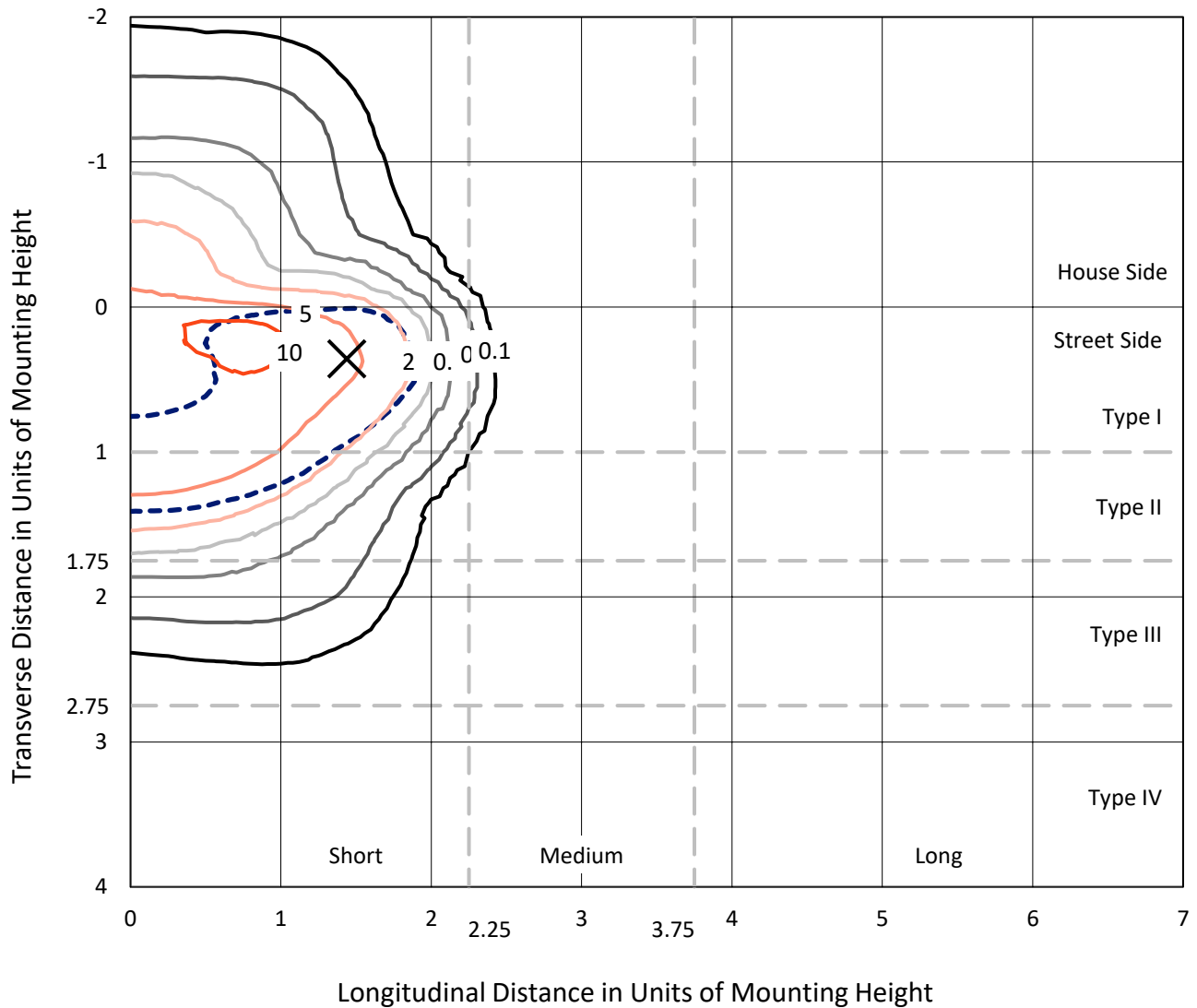
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

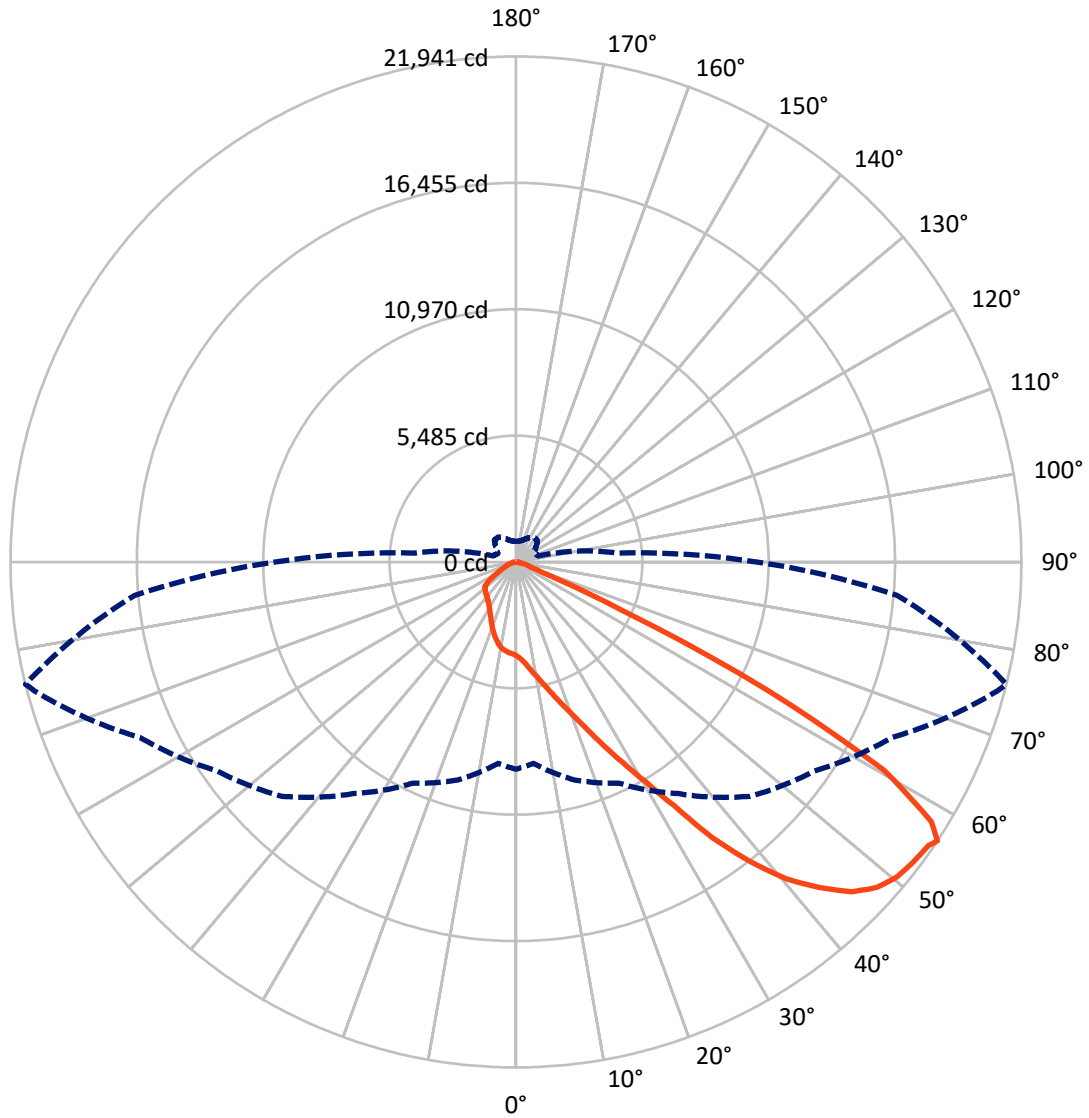
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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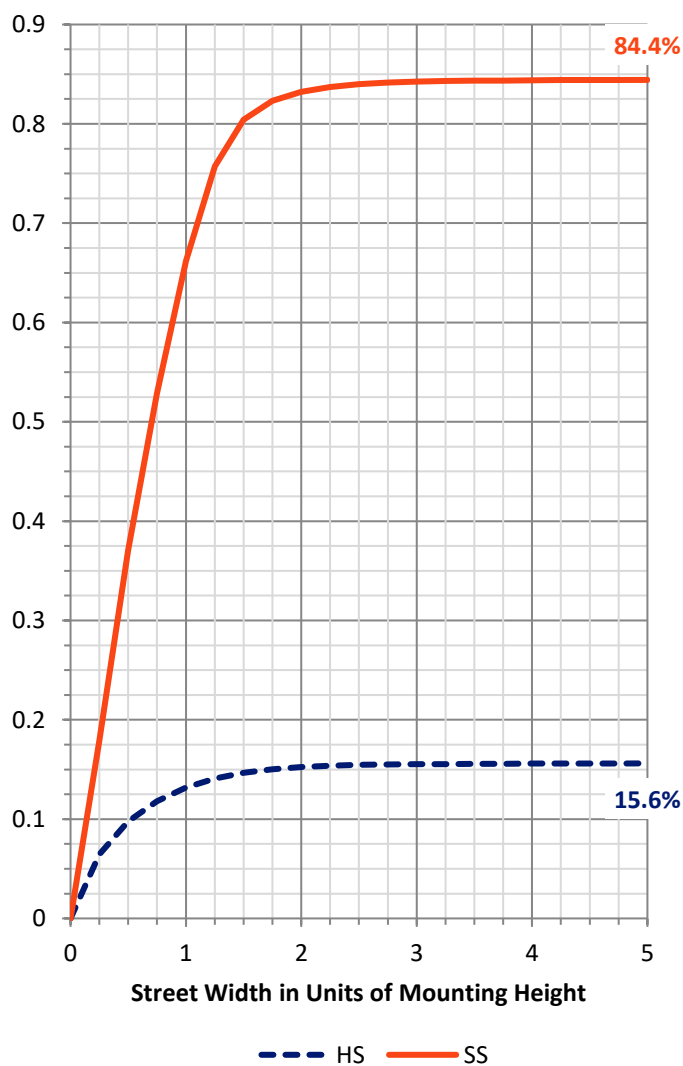
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3841.9	0.0	3841.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	20614.1	0.0	20614.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	24456.0	0.0	24456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.1	1.7
10°-20°	1317.4	5.4
20°-30°	2388.8	9.8
30°-40°	4119.6	16.8
40°-50°	6692.4	27.4
50°-60°	7054.1	28.8
60°-70°	2155.3	8.8
70°-80°	276.3	1.1
80°-90°	42.0	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°	24456.0	100.0
0°-180°	24456.0	100.0

Coefficient of Utilization

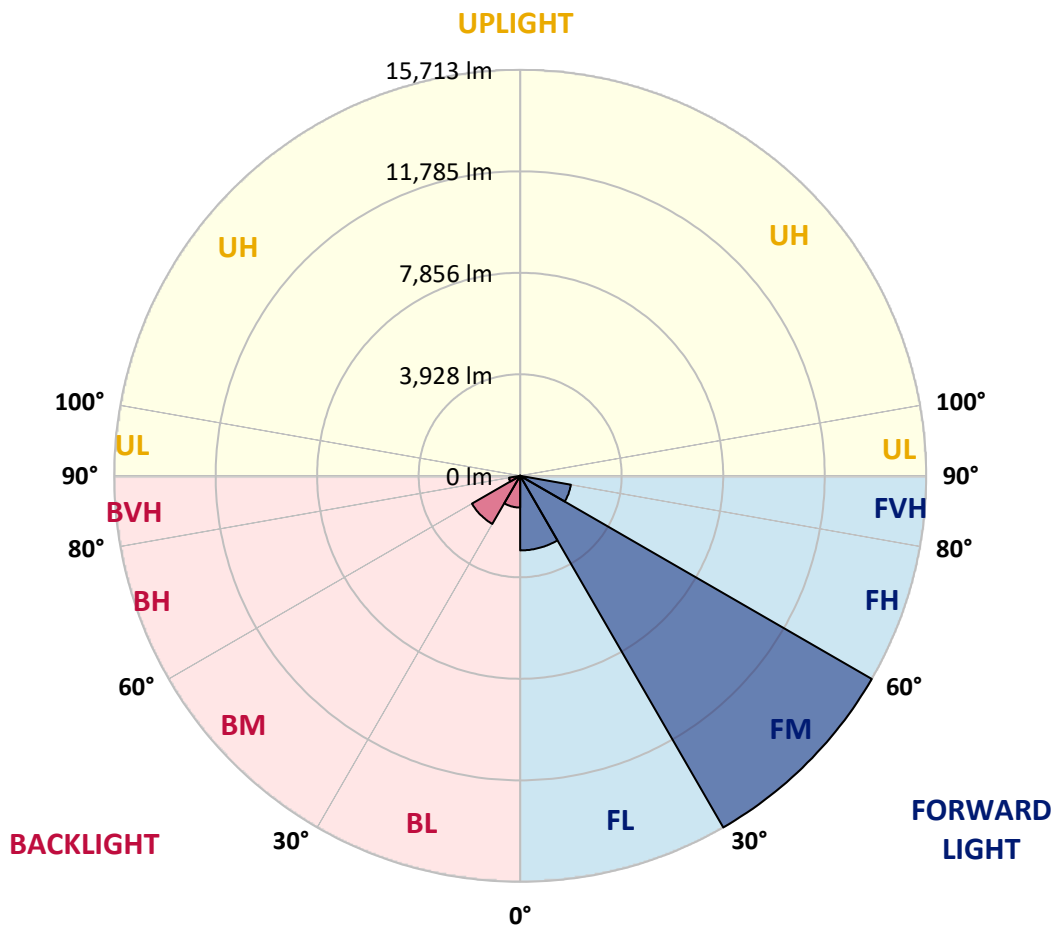


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2887.2	11.8			
FM (30°-60°)	15712.9	64.2			
FH (60°-80°)	1993.3	8.2			G2/5000
FVH (80°-90°)	20.6	0.1			G1/100
BL (0°-30°)	1229.0	5.0	B3/2500		
BM (30°-60°)	2153.2	8.8	B2/2500		
BH (60°-80°)	438.3	1.8	B1/500		G1/500
BVH (80°-90°)	21.4	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°	55°	65°	75°	76°	85°
0°	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7
2.5°	4688.3	4580.1	4584.7	4575.6	4562.1	4512.5	4363.8	4341.2	4242.0	4215.0	4124.8
5°	5251.8	5157.2	5211.3	5130.1	5053.5	5008.4	4765.0	4652.3	4494.5	4435.9	4309.7
7.5°	5603.5	5558.4	5540.4	5544.9	5472.7	5360.0	5251.8	5003.9	4792.0	4746.9	4481.0
10°	5774.8	5747.7	5774.8	5761.2	5792.8	5806.3	5617.0	5468.2	5157.2	5080.5	4665.8
12.5°	5815.3	5869.4	5892.0	5950.6	6027.2	6157.9	6144.4	5941.6	5526.8	5477.2	4949.8
15°	5914.5	5959.6	5937.1	6031.7	6176.0	6396.9	6514.1	6482.5	6036.2	5946.1	5278.9
17.5°	6004.7	5923.5	6000.2	6189.5	6333.8	6671.9	6955.9	7086.6	6590.7	6487.0	5580.9
20°	6126.4	6103.9	6090.3	6185.0	6442.0	6892.8	7456.3	7695.2	7212.8	7104.6	6013.7
22.5°	6496.1	6500.6	6491.5	6351.8	6536.6	7046.0	7893.5	8484.1	7956.6	7866.5	6505.1
25°	6982.9	6924.3	6879.2	6766.5	6744.0	7185.8	8335.3	9448.8	8849.2	8786.1	7037.0
27.5°	7496.8	7496.8	7361.6	7257.9	7113.6	7532.9	8741.0	10386.5	9926.7	9841.0	7501.3
30°	8055.8	8087.4	8069.3	7848.5	7758.3	7911.6	9155.8	11585.6	11161.8	11053.7	8267.7
32.5°	8880.8	8813.2	8889.8	8705.0	8439.0	8574.2	9809.4	12658.5	12766.7	12613.4	9273.0
35°	9971.7	9931.2	9881.6	9579.5	9264.0	9372.2	10733.6	13979.4	14781.8	14705.1	10287.3
37.5°	10950.0	10927.4	10886.9	10679.5	10314.3	10445.1	11784.0	15354.3	16747.3	16494.8	11720.8
40°	11977.8	12099.5	11968.8	11784.0	11450.4	11738.9	13019.1	16170.3	18401.7	18095.2	12816.3
42.5°	13370.8	13276.1	13334.7	12996.6	12816.3	13131.8	14258.9	16986.2	19686.5	19321.4	13979.4
45°	14853.9	14858.4	14700.6	14592.4	14123.6	14466.2	15020.7	17437.0	20709.8	20425.8	14858.4
47.5°	15805.1	15800.6	15971.9	16143.2	15660.8	15322.7	15539.1	17865.3	21237.3	21106.5	15178.5
50°	15656.3	15701.4	15922.3	16562.4	16814.9	16359.6	16026.0	17739.0	21476.2	21462.7	15453.5
52.5°	13618.7	13767.5	14137.1	15061.3	16332.5	16896.0	16535.4	17973.5	21593.4	21615.9	15863.7
55°	10368.4	10449.6	11152.8	12275.3	13681.8	15611.3	16332.5	18158.3	21683.6	21724.1	16359.6
56°	8993.5	8777.1	9791.4	10589.3	12270.8	14380.6	15818.6	18014.0	21629.5	21940.5	16607.5
57.5°	6789.1	6644.8	7465.3	8461.5	10079.9	12306.9	14222.8	17333.3	21264.3	21259.8	16251.4
60°	4129.3	3985.1	4616.2	5202.2	6108.4	7578.0	9611.1	13803.5	17978.0	18356.6	13158.9
62.5°	2456.9	2547.0	3169.1	3525.3	3818.3	3971.6	4972.3	8204.6	11995.8	12266.3	8164.0
65°	1636.4	1668.0	2136.8	2722.8	2853.6	2272.0	2024.1	3322.4	5202.2	5035.5	3367.5
67.5°	1009.8	1081.9	1433.5	2046.6	2267.5	1658.9	960.2	1239.7	1433.5	1433.5	973.7
70°	613.1	649.2	955.7	1393.0	1555.3	1068.4	698.7	698.7	689.7	676.2	581.5
72.5°	293.0	315.6	486.9	716.8	730.3	563.5	541.0	590.6	577.0	572.5	482.4
75°	126.2	135.2	171.3	225.4	257.0	238.9	329.1	423.8	437.3	423.8	347.1
77.5°	40.6	45.1	63.1	81.1	85.7	103.7	139.7	175.8	202.9	189.3	171.3
80°	4.5	9.0	18.0	40.6	63.1	81.1	103.7	117.2	130.7	130.7	121.7
82.5°	4.5	4.5	18.0	36.1	58.6	76.6	99.2	112.7	130.7	135.2	126.2
85°	0.0	4.5	13.5	31.6	49.6	49.6	45.1	45.1	31.6	31.6	31.6
87.5°	0.0	0.0	4.5	4.5	4.5	9.0	9.0	9.0	9.0	9.0	9.0
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°	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7	4070.7
2.5°	4106.8	4097.8	3976.1	3899.4	3858.9	3777.7	3728.1	3692.1	3665.0	3633.5	3638.0
5°	4160.9	4129.3	3926.5	3786.7	3619.9	3529.8	3453.1	3390.0	3349.5	3340.4	3322.4
7.5°	4314.2	4147.4	3840.8	3588.4	3376.5	3286.3	3218.7	3178.2	3196.2	3155.6	3187.2
10°	4431.4	4183.4	3737.1	3372.0	3160.1	3092.5	3056.4	3088.0	3133.1	3115.0	3092.5
12.5°	4575.6	4219.5	3570.3	3164.6	2966.3	2916.7	2979.8	3038.4	3128.6	3164.6	3119.5
15°	4737.9	4260.1	3358.5	2925.7	2799.5	2840.0	2948.2	3051.9	3142.1	3187.2	3214.2
17.5°	4936.3	4246.6	3151.1	2736.4	2641.7	2758.9	2889.6	2984.3	3119.5	3187.2	3169.1
20°	5121.1	4201.5	2921.2	2547.0	2551.5	2659.7	2767.9	2921.2	2993.3	3083.5	3051.9
22.5°	5296.9	4120.3	2682.3	2416.3	2416.3	2583.1	2637.2	2736.4	2799.5	2844.6	2840.0
25°	5544.9	3967.1	2483.9	2290.1	2344.2	2452.4	2497.4	2529.0	2501.9	2538.0	2542.5
27.5°	5720.7	3809.3	2321.6	2177.4	2276.5	2357.7	2344.2	2326.1	2263.0	2213.4	2245.0
30°	5910.0	3624.4	2181.9	2100.7	2154.8	2227.0	2172.9	2118.8	2019.6	1938.4	1943.0
32.5°	6180.5	3538.8	2060.2	2010.6	2082.7	2091.7	2033.1	1952.0	1852.8	1776.2	1771.7
35°	6685.4	3484.7	1956.5	1952.0	1965.5	1970.0	1911.4	1812.2	1771.7	1708.5	1731.1
37.5°	7190.3	3457.6	1884.4	1866.3	1861.8	1866.3	1798.7	1704.0	1780.7	1776.2	1785.2
40°	7834.9	3579.4	1780.7	1758.1	1762.6	1762.6	1677.0	1649.9	1785.2	1798.7	1803.2
42.5°	8488.6	3732.6	1713.0	1640.9	1658.9	1658.9	1613.9	1582.3	1677.0	1586.8	1573.3
45°	9056.6	3958.0	1640.9	1523.7	1568.8	1591.3	1577.8	1523.7	1465.1	1311.8	1311.8
47.5°	9241.4	4156.4	1555.3	1411.0	1447.1	1546.2	1505.7	1393.0	1289.3	1163.1	1154.1
50°	9566.0	4372.8	1487.6	1280.3	1356.9	1478.6	1438.1	1325.4	1208.1	1118.0	1122.5
52.5°	9899.6	4620.7	1361.4	1127.0	1221.7	1424.5	1424.5	1298.3	1118.0	1054.9	1045.9
55°	10400.0	4611.7	1136.0	924.1	1090.9	1343.4	1365.9	1163.1	1000.8	951.2	951.2
56°	10472.1	4404.3	1023.3	865.5	1032.3	1320.8	1325.4	1127.0	955.7	901.6	901.6
57.5°	9931.2	3976.1	897.1	793.4	960.2	1280.3	1284.8	1095.4	919.6	843.0	834.0
60°	7641.1	2691.3	748.3	707.8	870.0	1154.1	1176.6	996.3	806.9	748.3	743.8
62.5°	4314.2	1492.2	658.2	640.1	748.3	982.7	1050.4	870.0	685.2	653.7	662.7
65°	1970.0	820.5	554.5	518.4	604.1	757.3	847.5	716.8	563.5	527.4	527.4
67.5°	721.3	559.0	473.3	410.2	423.8	491.4	550.0	464.3	374.2	320.1	333.6
70°	513.9	468.8	414.7	356.1	329.1	320.1	315.6	261.5	184.8	144.3	153.3
72.5°	414.7	387.7	347.1	302.0	257.0	216.4	184.8	135.2	85.7	58.6	54.1
75°	297.5	284.0	252.4	216.4	180.3	153.3	126.2	85.7	45.1	22.5	22.5
77.5°	153.3	153.3	148.8	135.2	112.7	90.2	72.1	49.6	27.0	9.0	9.0
80°	117.2	126.2	130.7	117.2	103.7	81.1	58.6	36.1	18.0	4.5	4.5
82.5°	112.7	130.7	139.7	121.7	103.7	76.6	58.6	36.1	18.0	4.5	4.5
85°	27.0	27.0	40.6	45.1	58.6	63.1	49.6	31.6	13.5	4.5	4.5
87.5°	9.0	9.0	9.0	9.0	9.0	9.0	4.5	4.5	4.5	4.5	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)