

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: P529175

Luminaire Tested: **GALN-SA4B-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529175
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-SA4B-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA 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: 13278 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

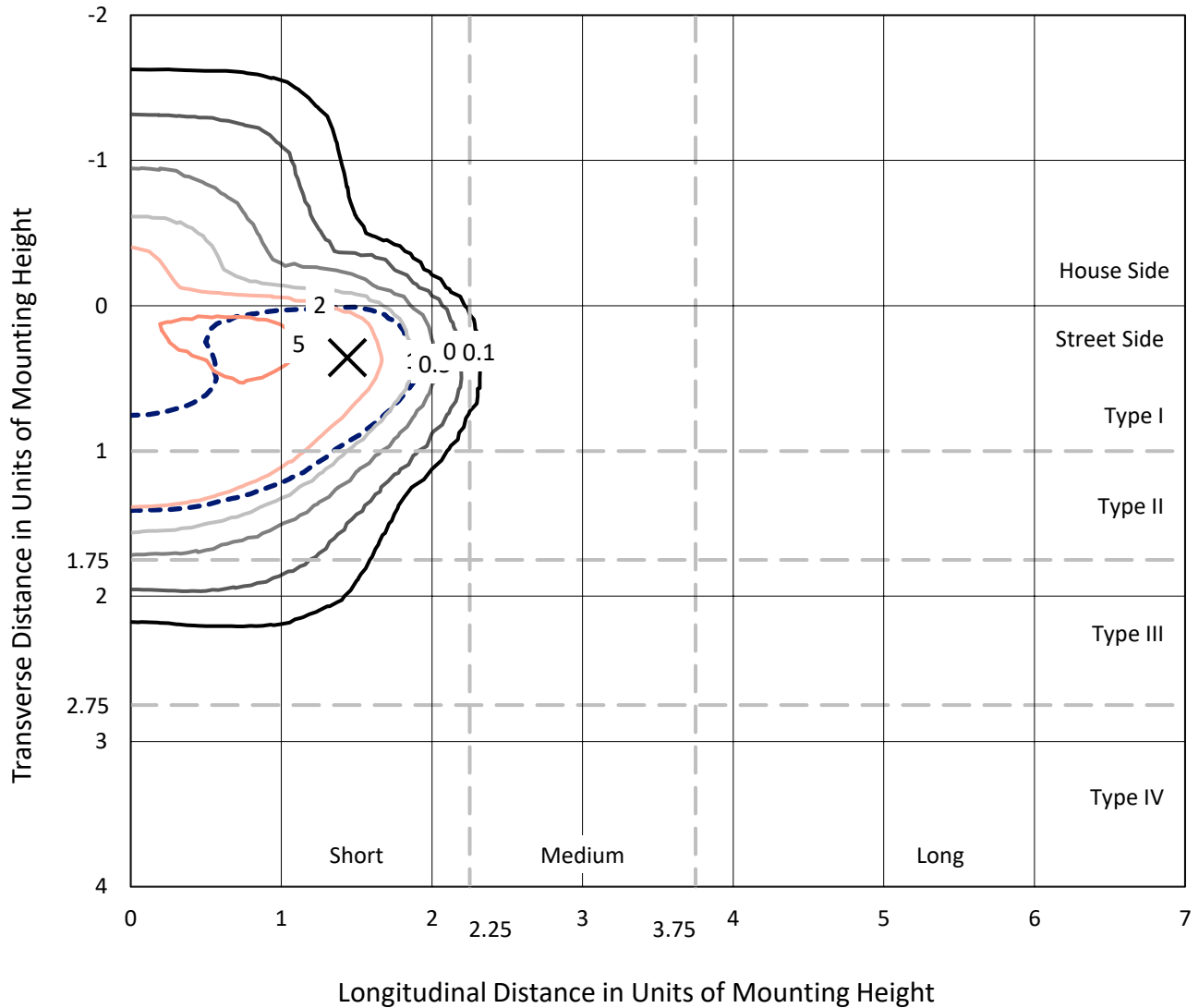
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

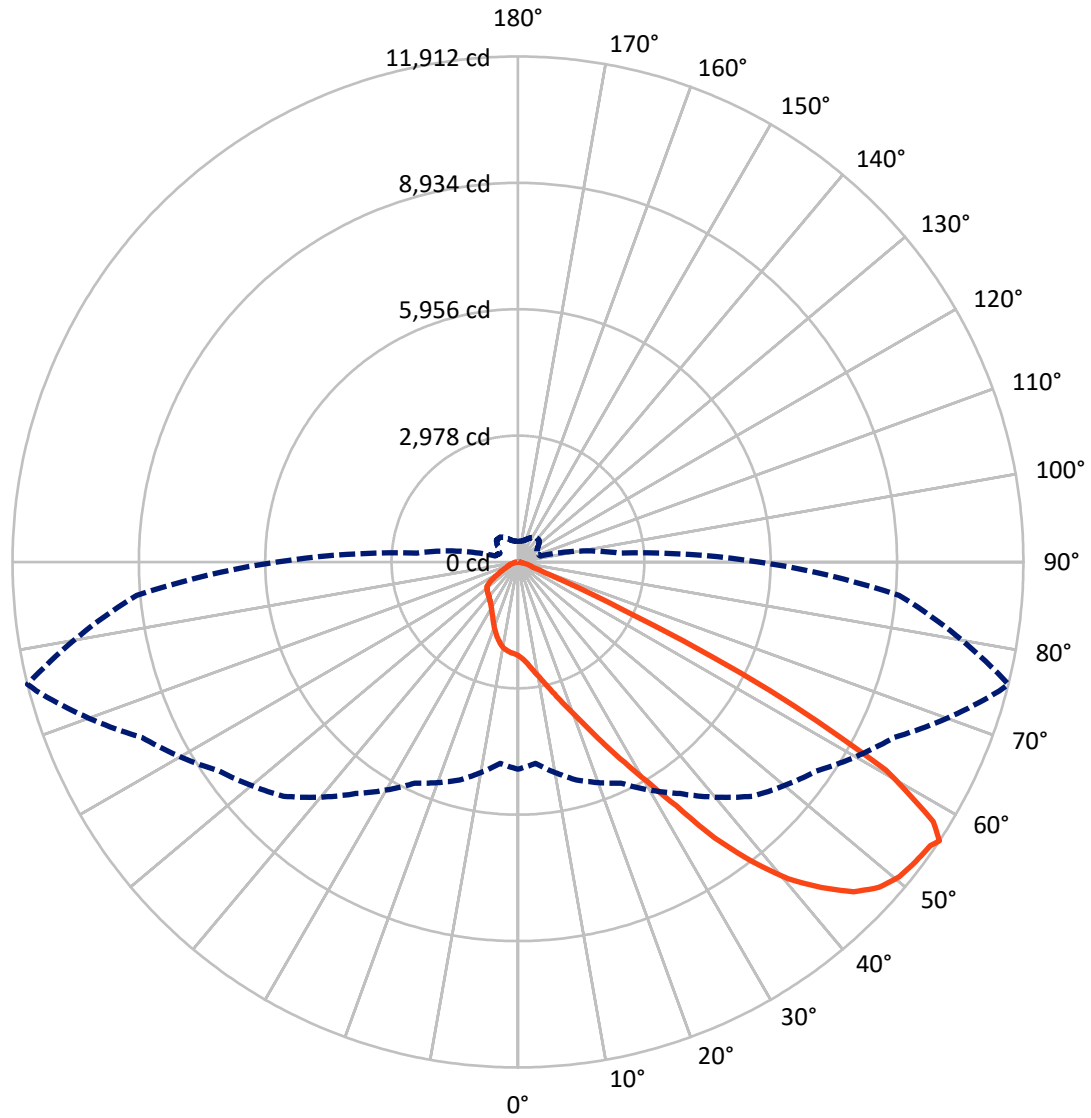
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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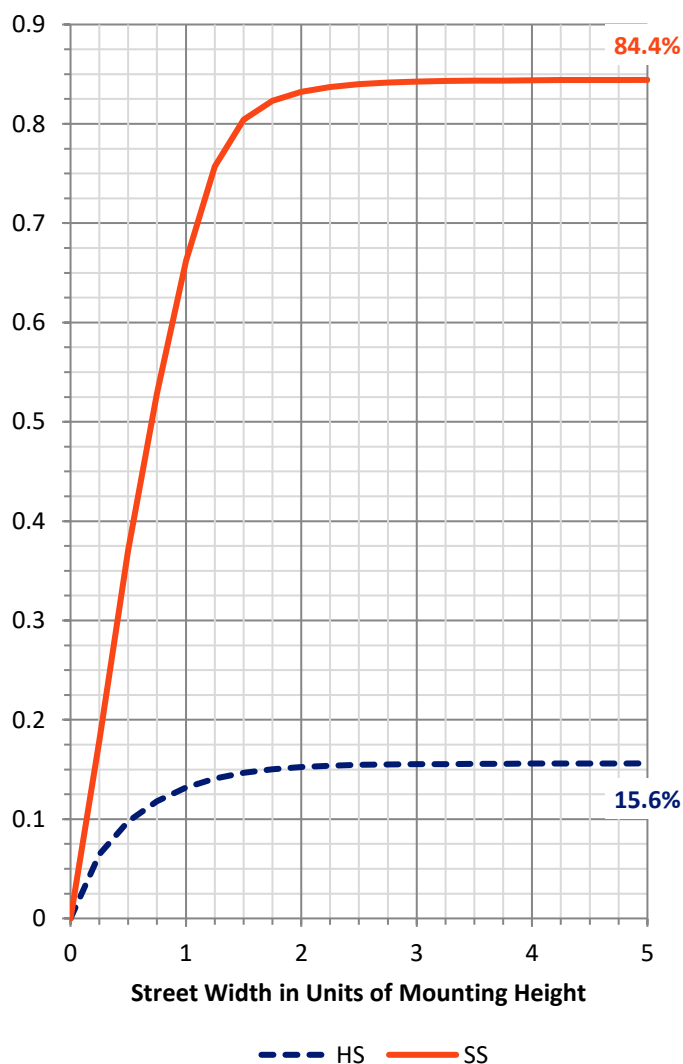
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2085.9	0.0	2085.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	11192.1	0.0	11192.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	13278.0	0.0	13278.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.6	1.7
10°-20°	715.3	5.4
20°-30°	1297.0	9.8
30°-40°	2236.7	16.8
40°-50°	3633.6	27.4
50°-60°	3829.9	28.8
60°-70°	1170.2	8.8
70°-80°	150.0	1.1
80°-90°	22.8	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°	13278.0	100.0
0°-180°	13278.0	100.0

Coefficient of Utilization

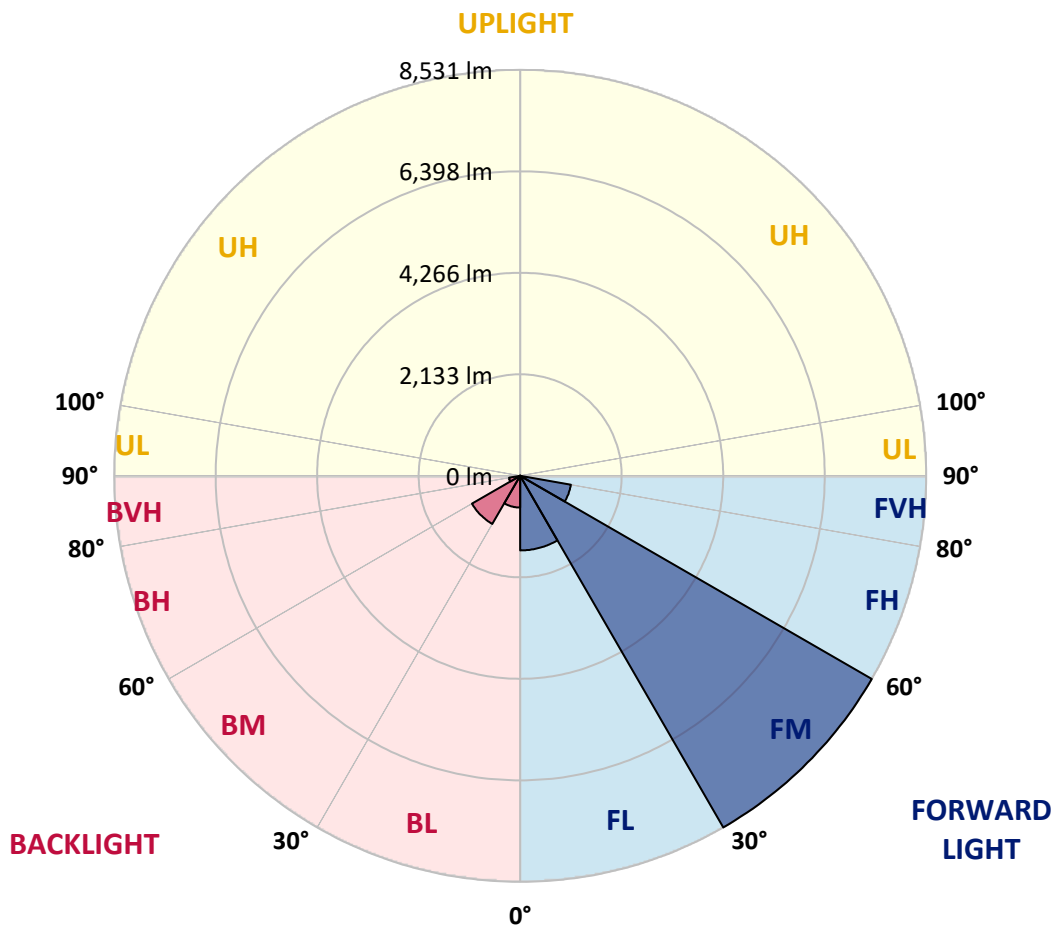


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1567.6	11.8			
FM (30°-60°)	8531.1	64.2			
FH (60°-80°)	1082.2	8.2			G1/1800
FVH (80°-90°)	11.2	0.1			G1/100
BL (0°-30°)	667.3	5.0	B2/1000		
BM (30°-60°)	1169.0	8.8	B2/2500		
BH (60°-80°)	238.0	1.8	B1/500		G1/500
BVH (80°-90°)	11.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1
2.5°	2545.5	2486.7	2489.2	2484.3	2476.9	2450.0	2369.2	2357.0	2303.2	2288.5	2239.5
5°	2851.4	2800.0	2829.4	2785.3	2743.7	2719.2	2587.1	2525.9	2440.2	2408.4	2339.9
7.5°	3042.3	3017.8	3008.0	3010.5	2971.3	2910.1	2851.4	2716.8	2601.8	2577.3	2432.9
10°	3135.3	3120.6	3135.3	3128.0	3145.1	3152.5	3049.7	2968.9	2800.0	2758.4	2533.2
12.5°	3157.3	3186.7	3199.0	3230.8	3272.4	3343.4	3336.0	3225.9	3000.7	2973.8	2687.4
15°	3211.2	3235.7	3223.4	3274.8	3353.2	3473.1	3536.7	3519.6	3277.3	3228.3	2866.1
17.5°	3260.1	3216.1	3257.7	3360.5	3438.8	3622.4	3776.6	3847.6	3578.3	3522.0	3030.1
20°	3326.2	3314.0	3306.6	3358.0	3497.6	3742.3	4048.3	4178.0	3916.1	3857.3	3265.0
22.5°	3526.9	3529.4	3524.5	3448.6	3549.0	3825.5	4285.7	4606.3	4319.9	4271.0	3531.8
25°	3791.3	3759.4	3735.0	3673.8	3661.5	3901.4	4525.5	5130.1	4804.6	4770.3	3820.6
27.5°	4070.3	4070.3	3996.9	3940.6	3862.2	4089.9	4745.8	5639.2	5389.5	5343.0	4072.7
30°	4373.8	4390.9	4381.1	4261.2	4212.2	4295.5	4971.0	6290.2	6060.1	6001.4	4488.8
32.5°	4821.7	4785.0	4826.6	4726.2	4581.8	4655.3	5325.9	6872.7	6931.5	6848.3	5034.6
35°	5414.0	5392.0	5365.0	5201.1	5029.7	5088.5	5827.6	7589.9	8025.5	7983.9	5585.3
37.5°	5945.1	5932.9	5910.8	5798.3	5600.0	5671.0	6397.9	8336.4	9092.7	8955.6	6363.6
40°	6503.2	6569.2	6498.3	6397.9	6216.8	6373.4	7068.5	8779.4	9990.9	9824.5	6958.4
42.5°	7259.5	7208.1	7239.9	7056.3	6958.4	7129.7	7741.6	9222.4	10688.5	10490.2	7589.9
45°	8064.7	8067.1	7981.5	7922.7	7668.2	7854.2	8155.3	9467.1	11244.1	11089.9	8067.1
47.5°	8581.1	8578.7	8671.7	8764.7	8502.8	8319.2	8436.7	9699.7	11530.4	11459.5	8240.9
50°	8500.4	8524.8	8644.8	8992.3	9129.4	8882.2	8701.1	9631.1	11660.2	11652.8	8390.2
52.5°	7394.1	7474.8	7675.5	8177.3	8867.5	9173.4	8977.6	9758.4	11723.8	11736.0	8612.9
55°	5629.4	5673.4	6055.3	6664.7	7428.3	8475.9	8867.5	9858.8	11772.7	11794.8	8882.2
56°	4882.9	4765.4	5316.1	5749.3	6662.2	7807.7	8588.5	9780.4	11743.4	11912.3	9016.8
57.5°	3686.0	3607.7	4053.2	4594.1	5472.7	6681.8	7722.0	9410.9	11545.1	11542.7	8823.4
60°	2242.0	2163.6	2506.3	2824.5	3316.4	4114.3	5218.2	7494.4	9760.9	9966.4	7144.4
62.5°	1333.9	1382.9	1720.6	1914.0	2073.1	2156.3	2699.7	4454.6	6512.9	6659.8	4432.5
65°	888.5	905.6	1160.1	1478.3	1549.3	1233.6	1099.0	1803.8	2824.5	2733.9	1828.3
67.5°	548.3	587.4	778.3	1111.2	1231.1	900.7	521.3	673.1	778.3	778.3	528.7
70°	332.9	352.4	518.9	756.3	844.4	580.1	379.4	379.4	374.5	367.1	315.7
72.5°	159.1	171.3	264.3	389.2	396.5	305.9	293.7	320.6	313.3	310.8	261.9
75°	68.5	73.4	93.0	122.4	139.5	129.7	178.7	230.1	237.4	230.1	188.5
77.5°	22.0	24.5	34.3	44.1	46.5	56.3	75.9	95.5	110.1	102.8	93.0
80°	2.4	4.9	9.8	22.0	34.3	44.1	56.3	63.6	71.0	71.0	66.1
82.5°	2.4	2.4	9.8	19.6	31.8	41.6	53.8	61.2	71.0	73.4	68.5
85°	0.0	2.4	7.3	17.1	26.9	26.9	24.5	24.5	17.1	17.1	17.1
87.5°	0.0	0.0	2.4	2.4	2.4	4.9	4.9	4.9	4.9	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°	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1
2.5°	2229.7	2224.8	2158.7	2117.1	2095.1	2051.1	2024.1	2004.5	1989.9	1972.7	1975.2
5°	2259.1	2242.0	2131.8	2055.9	1965.4	1916.4	1874.8	1840.6	1818.5	1813.6	1803.8
7.5°	2342.3	2251.8	2085.3	1948.3	1833.2	1784.3	1747.6	1725.5	1735.3	1713.3	1730.4
10°	2405.9	2271.3	2029.0	1830.8	1715.7	1679.0	1659.4	1676.6	1701.1	1691.3	1679.0
12.5°	2484.3	2290.9	1938.5	1718.2	1610.5	1583.6	1617.8	1649.7	1698.6	1718.2	1693.7
15°	2572.4	2312.9	1823.4	1588.5	1519.9	1542.0	1600.7	1657.0	1705.9	1730.4	1745.1
17.5°	2680.1	2305.6	1710.8	1485.7	1434.3	1497.9	1568.9	1620.3	1693.7	1730.4	1720.6
20°	2780.4	2281.1	1586.0	1382.9	1385.3	1444.1	1502.8	1586.0	1625.2	1674.1	1657.0
22.5°	2875.9	2237.1	1456.3	1311.9	1311.9	1402.4	1431.8	1485.7	1519.9	1544.4	1542.0
25°	3010.5	2153.8	1348.6	1243.4	1272.7	1331.5	1355.9	1373.1	1358.4	1378.0	1380.4
27.5°	3105.9	2068.2	1260.5	1182.2	1236.0	1280.1	1272.7	1262.9	1228.7	1201.7	1218.9
30°	3208.7	1967.8	1184.6	1140.6	1169.9	1209.1	1179.7	1150.4	1096.5	1052.4	1054.9
32.5°	3355.6	1921.3	1118.5	1091.6	1130.8	1135.7	1103.8	1059.8	1005.9	964.3	961.9
35°	3629.7	1892.0	1062.2	1059.8	1067.1	1069.6	1037.8	983.9	961.9	927.6	939.9
37.5°	3903.9	1877.3	1023.1	1013.3	1010.8	1013.3	976.6	925.2	966.8	964.3	969.2
40°	4253.9	1943.4	966.8	954.5	957.0	957.0	910.5	895.8	969.2	976.6	979.0
42.5°	4608.7	2026.6	930.1	890.9	900.7	900.7	876.2	859.1	910.5	861.5	854.2
45°	4917.1	2149.0	890.9	827.3	851.7	864.0	856.6	827.3	795.5	712.2	712.2
47.5°	5017.5	2256.6	844.4	766.1	785.7	839.5	817.5	756.3	700.0	631.5	626.6
50°	5193.7	2374.1	807.7	695.1	736.7	802.8	780.8	719.6	655.9	607.0	609.4
52.5°	5374.8	2508.7	739.2	611.9	663.3	773.4	773.4	704.9	607.0	572.7	567.8
55°	5646.5	2503.8	616.8	501.7	592.3	729.4	741.6	631.5	543.4	516.4	516.4
56°	5685.7	2391.3	555.6	469.9	560.5	717.1	719.6	611.9	518.9	489.5	489.5
57.5°	5392.0	2158.7	487.1	430.8	521.3	695.1	697.6	594.8	499.3	457.7	452.8
60°	4148.6	1461.2	406.3	384.3	472.4	626.6	638.8	540.9	438.1	406.3	403.8
62.5°	2342.3	810.1	357.3	347.6	406.3	533.6	570.3	472.4	372.0	354.9	359.8
65°	1069.6	445.5	301.0	281.5	328.0	411.2	460.1	389.2	305.9	286.4	286.4
67.5°	391.6	303.5	257.0	222.7	230.1	266.8	298.6	252.1	203.1	173.8	181.1
70°	279.0	254.5	225.2	193.4	178.7	173.8	171.3	142.0	100.3	78.3	83.2
72.5°	225.2	210.5	188.5	164.0	139.5	117.5	100.3	73.4	46.5	31.8	29.4
75°	161.5	154.2	137.1	117.5	97.9	83.2	68.5	46.5	24.5	12.2	12.2
77.5°	83.2	83.2	80.8	73.4	61.2	49.0	39.2	26.9	14.7	4.9	4.9
80°	63.6	68.5	71.0	63.6	56.3	44.1	31.8	19.6	9.8	2.4	2.4
82.5°	61.2	71.0	75.9	66.1	56.3	41.6	31.8	19.6	9.8	2.4	2.4
85°	14.7	14.7	22.0	24.5	31.8	34.3	26.9	17.1	7.3	2.4	2.4
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	2.4	2.4	2.4	2.4	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)