

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: P529803

Luminaire Tested: **GALN-SA5A-727-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529803
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-SA5A-727-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA 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: 11437 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

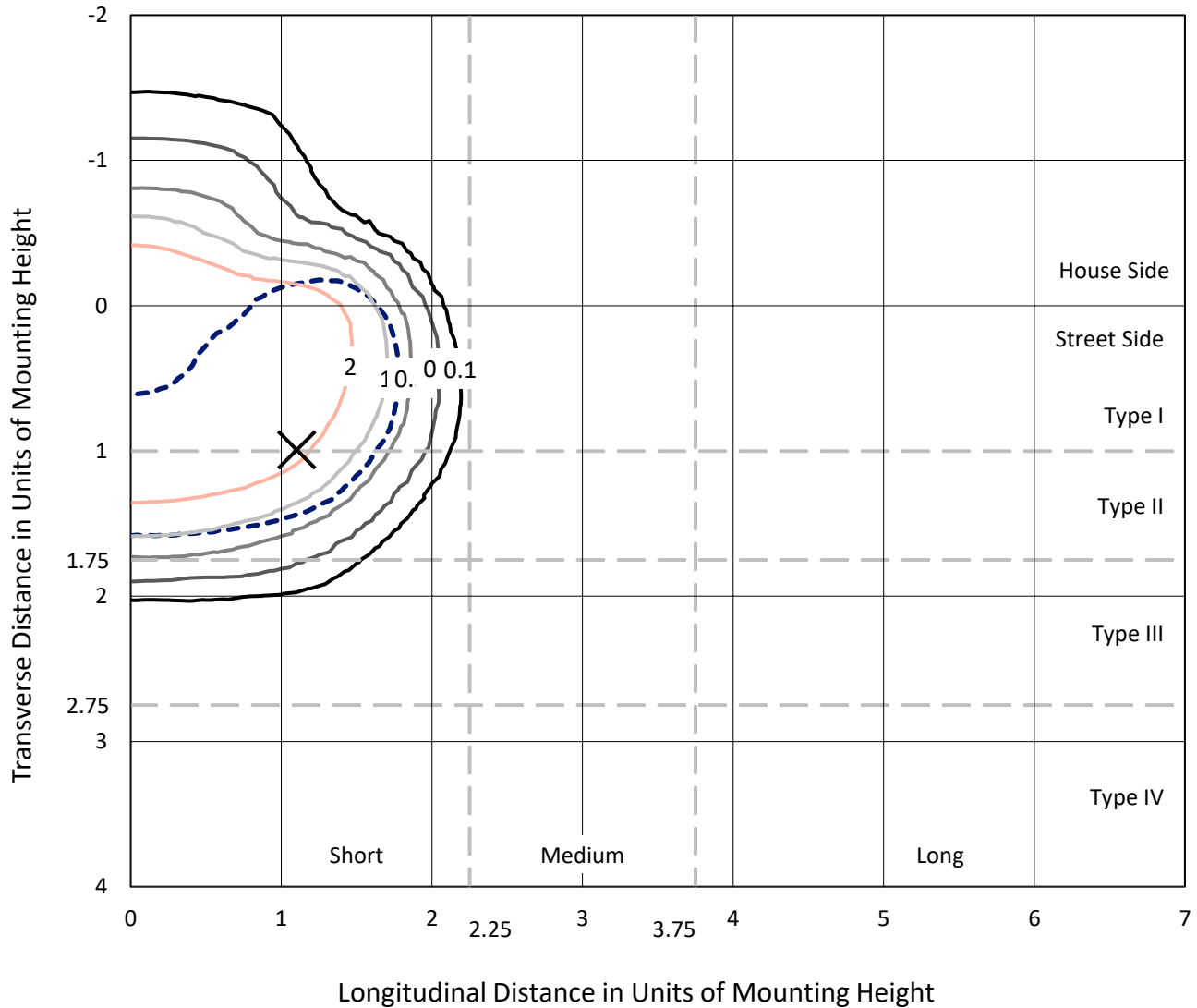
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

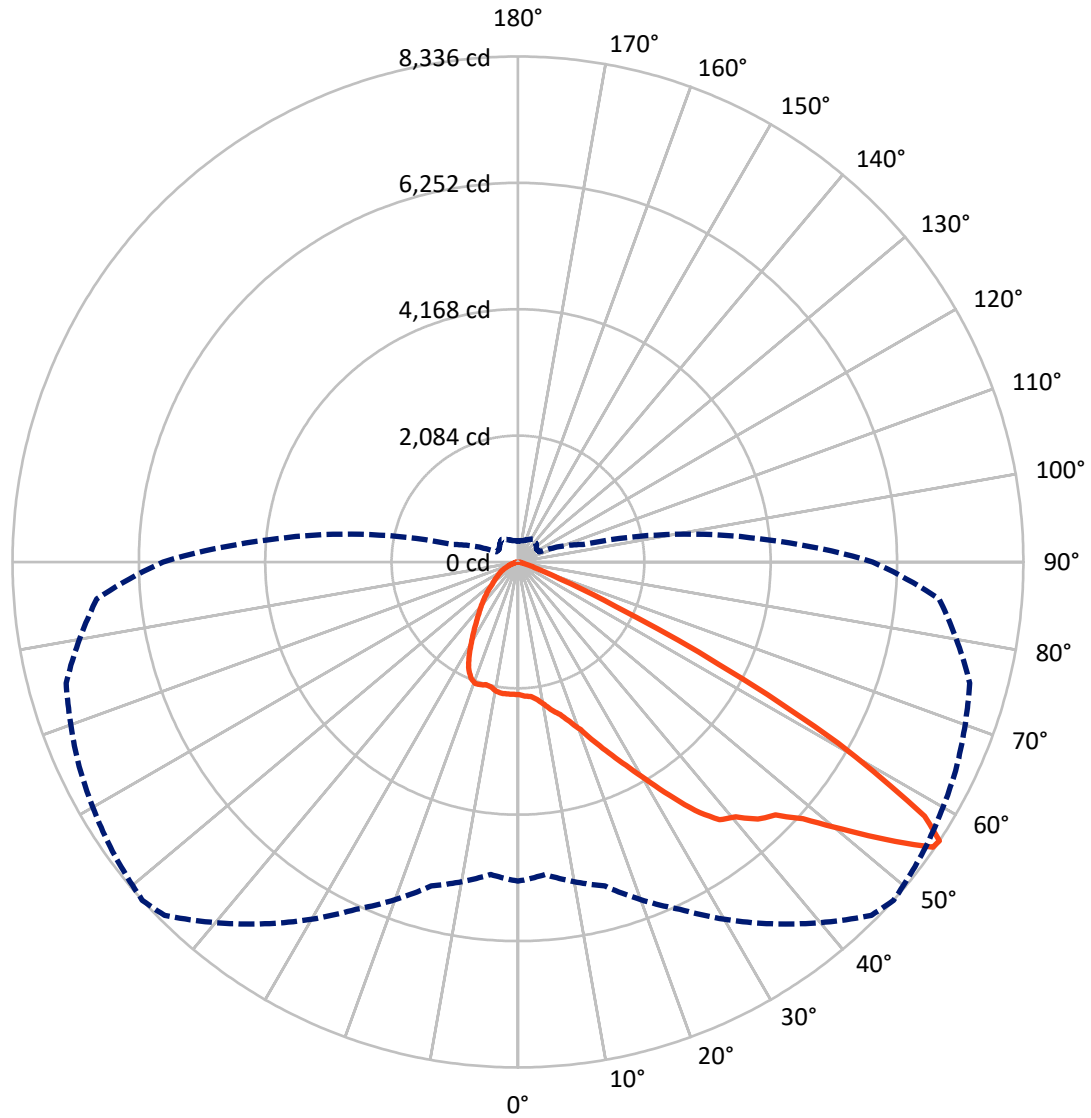
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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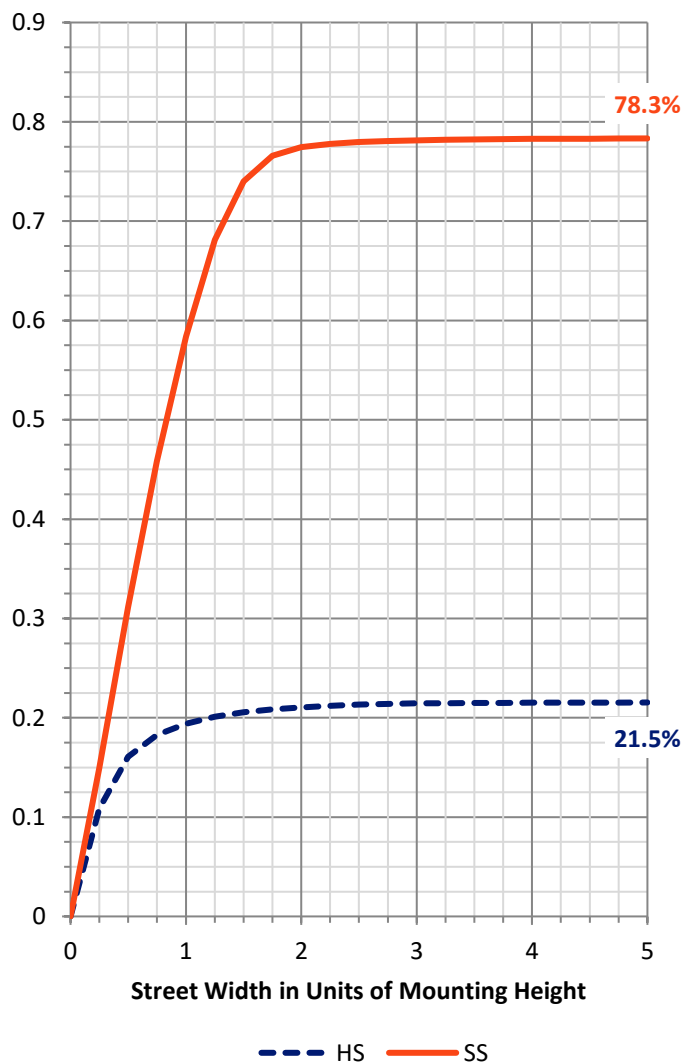
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2487.3	0.0	2487.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	8949.7	0.0	8949.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	11437.0	0.0	11437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.8	1.9
10°-20°	680.0	5.9
20°-30°	1233.5	10.8
30°-40°	1937.5	16.9
40°-50°	2826.5	24.7
50°-60°	3405.4	29.8
60°-70°	997.1	8.7
70°-80°	126.5	1.1
80°-90°	17.7	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°	11437.0	100.0
0°-180°	11437.0	100.0

Coefficient of Utilization

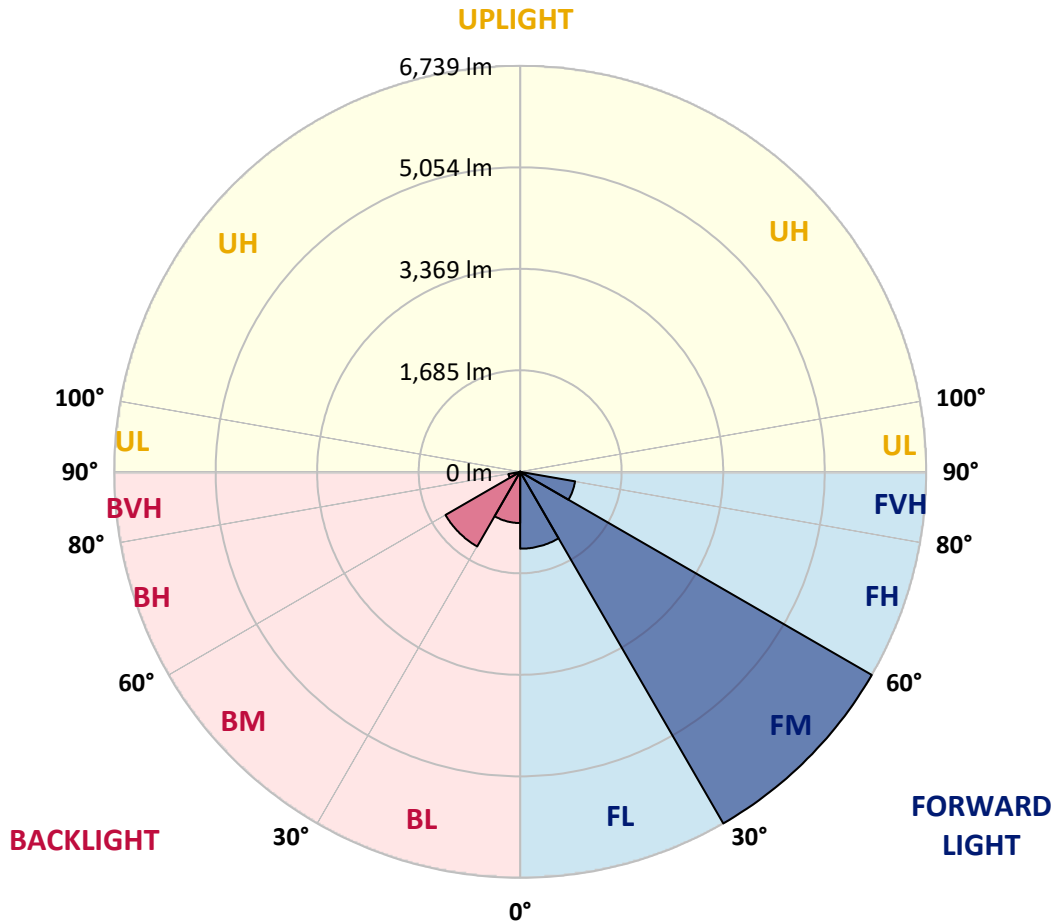


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1276.1	11.2			
FM (30°-60°)	6738.7	58.9			
FH (60°-80°)	925.9	8.1			G1/1800
FVH (80°-90°)	8.9	0.1			G0/10
BL (0°-30°)	850.2	7.4	B2/1000		
BM (30°-60°)	1430.7	12.5	B2/2500		
BH (60°-80°)	197.6	1.7	B1/500		G1/500
BVH (80°-90°)	8.8	0.1			G0/10
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°	48°	55°	65°	75°	85°
0°	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5
2.5°	2224.0	2213.6	2213.6	2197.0	2215.7	2207.4	2213.6	2192.8	2213.6	2182.4	2207.4
5°	2234.5	2236.5	2228.2	2238.6	2238.6	2251.1	2230.3	2249.0	2259.4	2236.5	2226.1
7.5°	2288.6	2292.8	2290.7	2282.3	2299.0	2296.9	2294.8	2280.3	2284.4	2276.1	2263.6
10°	2394.8	2392.7	2403.1	2382.3	2369.8	2384.4	2388.6	2365.6	2349.0	2342.7	2303.2
12.5°	2548.9	2523.9	2509.3	2488.5	2494.8	2473.9	2511.4	2471.8	2463.5	2426.0	2386.5
15°	2673.8	2669.7	2671.8	2638.4	2601.0	2609.3	2609.3	2588.5	2576.0	2530.2	2473.9
17.5°	2930.0	2842.5	2861.3	2819.6	2788.4	2786.3	2767.6	2771.7	2738.4	2642.6	2557.2
20°	3129.9	3092.4	3063.3	2992.5	2944.6	2959.1	2950.8	2930.0	2919.6	2794.6	2673.8
22.5°	3309.0	3321.5	3273.6	3254.8	3188.2	3194.5	3211.1	3192.4	3113.2	2984.1	2805.0
25°	3561.0	3546.4	3481.8	3458.9	3396.4	3419.4	3483.9	3469.3	3419.4	3186.1	2907.1
27.5°	3858.7	3808.8	3821.3	3717.1	3656.8	3721.3	3798.4	3871.2	3729.6	3423.5	3027.9
30°	4069.1	4017.0	4012.8	4008.7	3994.1	4069.1	4158.6	4225.3	4110.7	3660.9	3227.8
32.5°	4173.2	4185.7	4221.1	4208.6	4335.6	4489.7	4583.4	4679.2	4535.5	4048.2	3492.2
35°	4450.2	4371.0	4450.2	4458.5	4589.7	4916.6	5035.3	5264.4	5229.0	4595.9	3815.0
37.5°	4612.6	4606.3	4616.8	4695.9	4822.9	5226.9	5395.6	5572.6	5506.0	4925.0	4216.9
40°	4881.2	4897.9	4895.8	4956.2	5095.7	5460.1	5528.9	5672.5	5678.8	5381.0	4808.3
42.5°	5312.3	5245.6	5201.9	5264.4	5460.1	5662.1	5799.6	5770.4	5976.6	5934.9	5568.4
45°	5699.6	5739.2	5674.6	5778.8	5849.6	5957.8	5953.7	6016.1	6278.5	6476.4	6141.1
47.5°	6062.0	6087.0	6118.2	6189.0	6343.1	6359.7	6324.3	6297.3	6659.6	6863.7	6584.7
50°	6278.5	6301.4	6447.2	6574.2	6861.6	6899.1	6919.9	6851.2	7096.9	7119.8	7003.2
52.5°	6220.2	6245.2	6449.3	6867.9	7326.0	7669.6	7607.1	7490.5	7475.9	7565.5	7390.6
55°	5703.8	5680.9	5962.0	6613.8	7471.8	8296.4	8304.7	8181.9	7946.6	7886.2	7332.2
56°	5264.4	5174.8	5533.0	6320.2	7284.3	8242.3	8336.0	8204.8	7984.0	7713.3	6972.0
57.5°	4312.7	4398.1	4754.2	5406.0	6636.7	7852.9	7907.0	7875.8	7709.2	7255.2	6134.8
60°	2378.1	2528.1	2842.5	3640.1	4725.0	6026.6	6070.3	6324.3	6355.6	5555.9	4221.1
62.5°	1010.0	993.3	1320.3	1907.5	2690.5	3638.0	3719.2	3979.5	4027.4	3202.8	2117.8
65°	410.2	433.1	597.7	960.0	1422.3	1657.6	1772.2	1857.5	2015.8	1322.3	780.9
67.5°	270.7	268.6	351.9	547.7	766.3	739.3	739.3	780.9	722.6	539.4	337.4
70°	193.7	199.9	252.0	379.0	476.9	354.0	339.4	324.9	368.6	356.1	272.8
72.5°	127.0	135.4	168.7	227.0	247.8	193.7	193.7	233.2	304.0	287.4	222.8
75°	83.3	85.4	104.1	131.2	122.9	100.0	110.4	156.2	220.7	212.4	158.3
77.5°	56.2	58.3	70.8	85.4	68.7	56.2	60.4	79.1	108.3	108.3	83.3
80°	20.8	22.9	29.2	27.1	31.2	39.6	43.7	54.1	64.6	64.6	56.2
82.5°	0.0	2.1	6.2	14.6	22.9	31.2	35.4	41.6	47.9	54.1	52.1
85°	0.0	2.1	6.2	10.4	16.7	18.7	20.8	14.6	12.5	12.5	10.4
87.5°	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	4.2	2.1	2.1
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°	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5
2.5°	2184.5	2182.4	2182.4	2176.1	2188.6	2182.4	2186.6	2184.5	2157.4	2178.2	2163.6
5°	2207.4	2222.0	2199.0	2194.9	2178.2	2184.5	2184.5	2163.6	2182.4	2180.3	2176.1
7.5°	2265.7	2240.7	2215.7	2190.7	2186.6	2180.3	2157.4	2149.1	2163.6	2147.0	2172.0
10°	2290.7	2294.8	2257.4	2224.0	2192.8	2149.1	2117.8	2099.1	2076.2	2101.2	2115.8
12.5°	2405.2	2363.6	2299.0	2246.9	2140.7	2097.0	2065.8	2057.4	2097.0	2105.3	2090.8
15°	2444.8	2438.5	2355.2	2238.6	2128.2	2076.2	2082.4	2065.8	2069.9	2049.1	2053.3
17.5°	2526.0	2455.2	2357.3	2211.5	2126.2	2113.7	2076.2	2009.5	1972.1	1955.4	1970.0
20°	2615.5	2546.8	2405.2	2222.0	2144.9	2111.6	1988.7	1907.5	1830.5	1788.8	1790.9
22.5°	2694.7	2609.3	2384.4	2226.1	2161.6	2024.1	1876.3	1715.9	1620.1	1555.6	1557.7
25°	2790.5	2669.7	2392.7	2234.5	2117.8	1884.6	1672.2	1516.0	1401.5	1357.7	1372.3
27.5°	2844.6	2707.2	2438.5	2253.2	2003.3	1686.8	1457.7	1311.9	1245.3	1224.5	1222.4
30°	3007.0	2790.5	2494.8	2215.7	1811.7	1474.4	1262.0	1172.4	1107.9	1089.1	1093.3
32.5°	3248.6	2942.5	2567.6	2117.8	1616.0	1284.9	1134.9	1068.3	1007.9	972.5	968.3
35°	3450.6	3202.8	2644.7	1965.8	1389.0	1139.1	1045.4	962.1	870.5	830.9	820.5
37.5°	3835.8	3496.4	2628.0	1736.7	1172.4	1030.8	949.6	847.6	768.4	714.3	708.0
40°	4348.1	3840.0	2546.8	1457.7	1012.1	935.0	847.6	749.7	651.8	606.0	601.8
42.5°	4970.8	4260.7	2399.0	1174.5	851.7	839.2	760.1	647.6	560.2	526.9	528.9
45°	5476.8	4620.9	2249.0	943.3	733.0	745.5	676.8	570.6	510.2	483.1	483.1
47.5°	5926.6	4864.6	2086.6	778.8	622.6	651.8	591.4	528.9	476.9	456.1	451.9
50°	6359.7	5112.4	1924.2	631.0	531.0	560.2	553.9	503.9	462.3	437.3	439.4
52.5°	6630.5	5151.9	1718.0	516.4	464.4	497.7	518.5	472.7	426.9	412.3	408.2
55°	6299.4	4641.7	1332.8	424.8	393.6	437.3	476.9	424.8	389.4	364.4	362.3
56°	5853.7	4150.3	1114.1	391.5	372.8	420.7	462.3	406.1	366.5	351.9	341.5
57.5°	4956.2	3396.4	822.6	347.8	345.7	391.5	439.4	387.3	341.5	329.0	329.0
60°	3090.3	1911.7	497.7	291.5	299.9	347.8	395.7	345.7	304.0	304.0	310.3
62.5°	1407.7	795.5	302.0	247.8	258.2	299.9	351.9	312.4	289.5	312.4	316.5
65°	479.0	343.6	218.7	197.8	204.1	247.8	302.0	316.5	314.4	329.0	337.4
67.5°	268.6	220.7	183.3	164.5	160.3	183.3	247.8	316.5	304.0	297.8	302.0
70°	227.0	187.4	162.4	145.8	139.5	147.9	191.6	239.5	214.5	208.2	204.1
72.5°	183.3	156.2	141.6	131.2	112.5	95.8	87.5	91.6	102.0	108.3	118.7
75°	129.1	118.7	118.7	106.2	81.2	60.4	47.9	39.6	27.1	18.7	20.8
77.5°	72.9	72.9	75.0	64.6	52.1	39.6	29.2	20.8	10.4	4.2	2.1
80°	50.0	54.1	58.3	52.1	43.7	35.4	25.0	14.6	6.2	0.0	0.0
82.5°	50.0	56.2	60.4	52.1	43.7	33.3	25.0	14.6	6.2	2.1	0.0
85°	10.4	12.5	14.6	16.7	25.0	25.0	18.7	12.5	6.2	2.1	0.0
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	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)