

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: P529878

Luminaire Tested: **GALN-SA5A-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19210 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

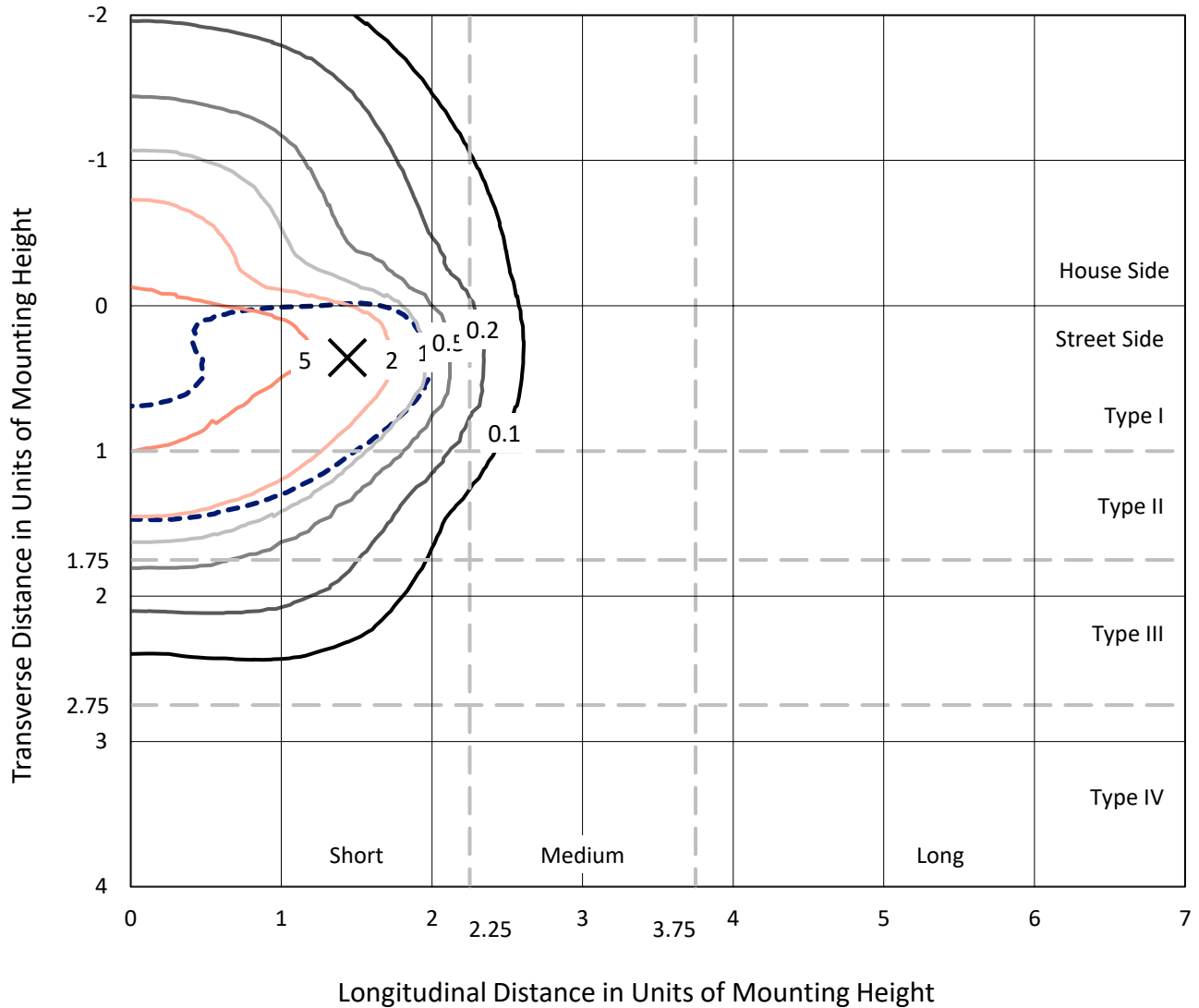
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

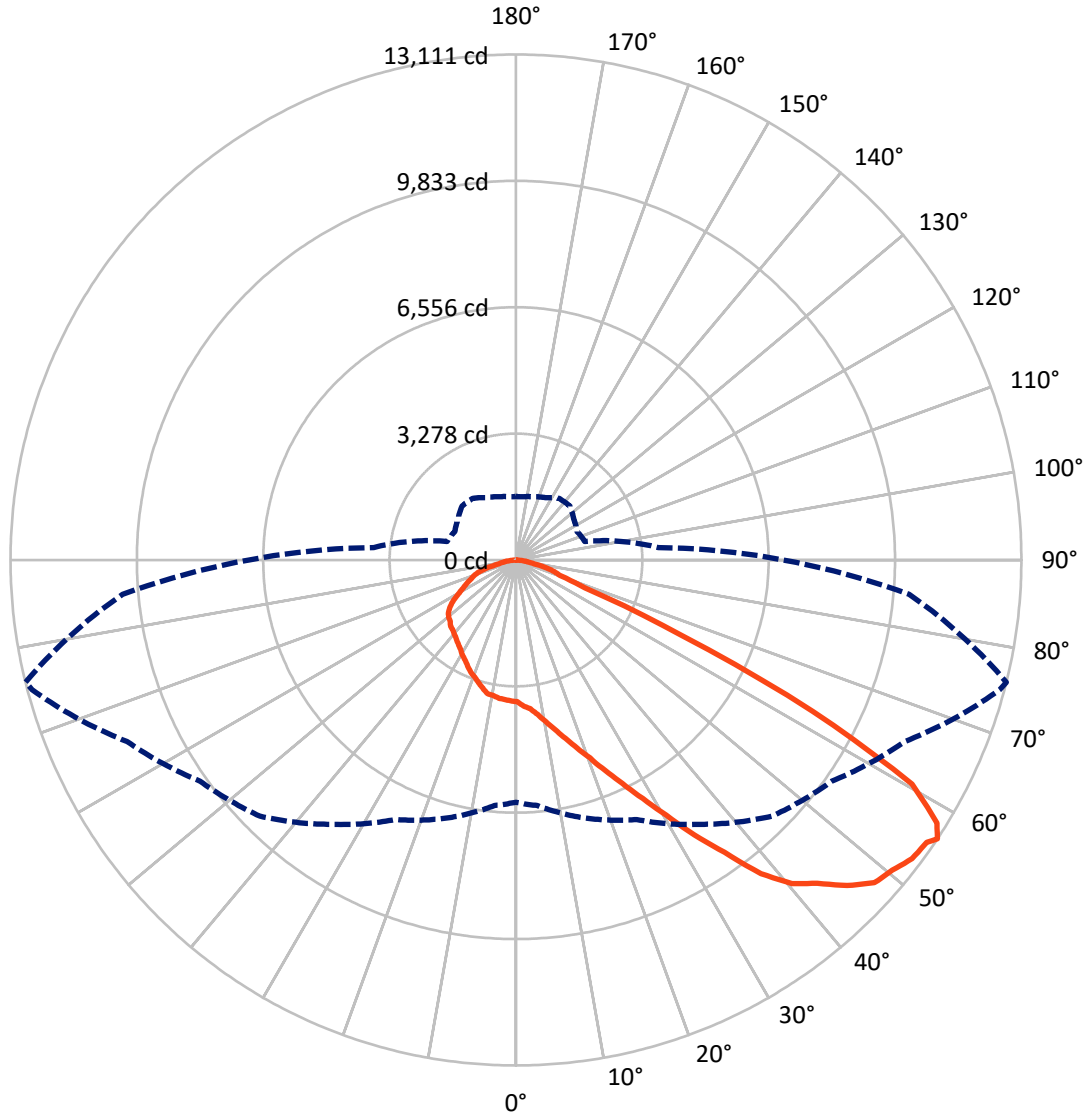
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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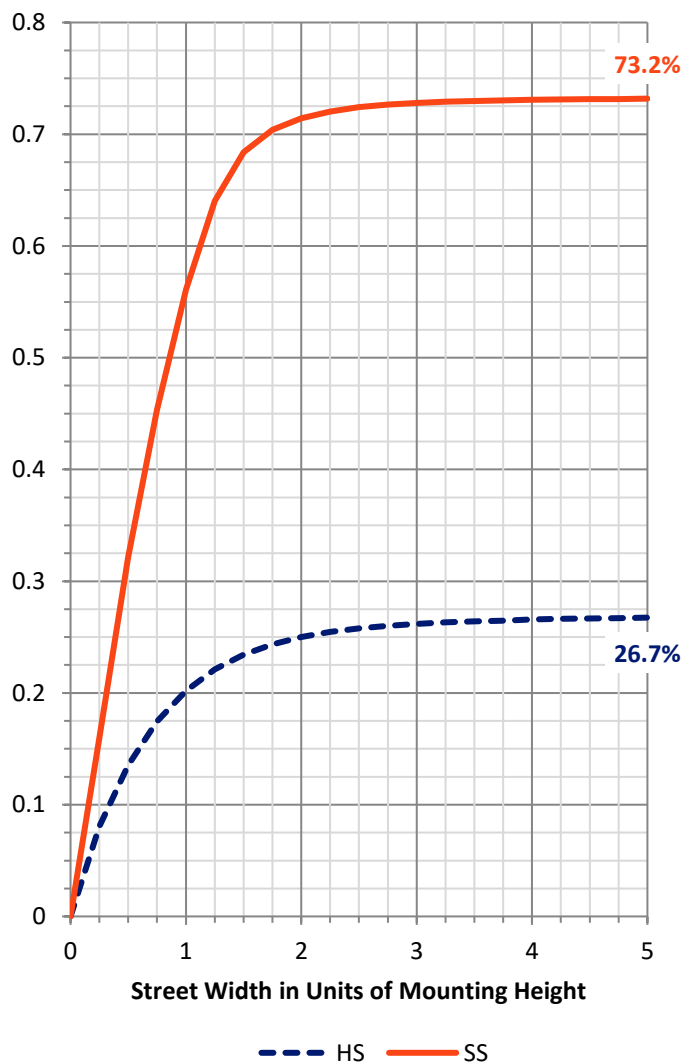
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5165.0	0.0	5165.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	14045.0	0.0	14045.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	19210.0	0.0	19210.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.5	1.9
10°-20°	1145.0	6.0
20°-30°	2002.5	10.4
30°-40°	3135.4	16.3
40°-50°	4561.1	23.7
50°-60°	5012.9	26.1
60°-70°	2237.5	11.6
70°-80°	646.3	3.4
80°-90°	104.8	0.5
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°	19210.0	100.0
0°-180°	19210.0	100.0

Coefficient of Utilization

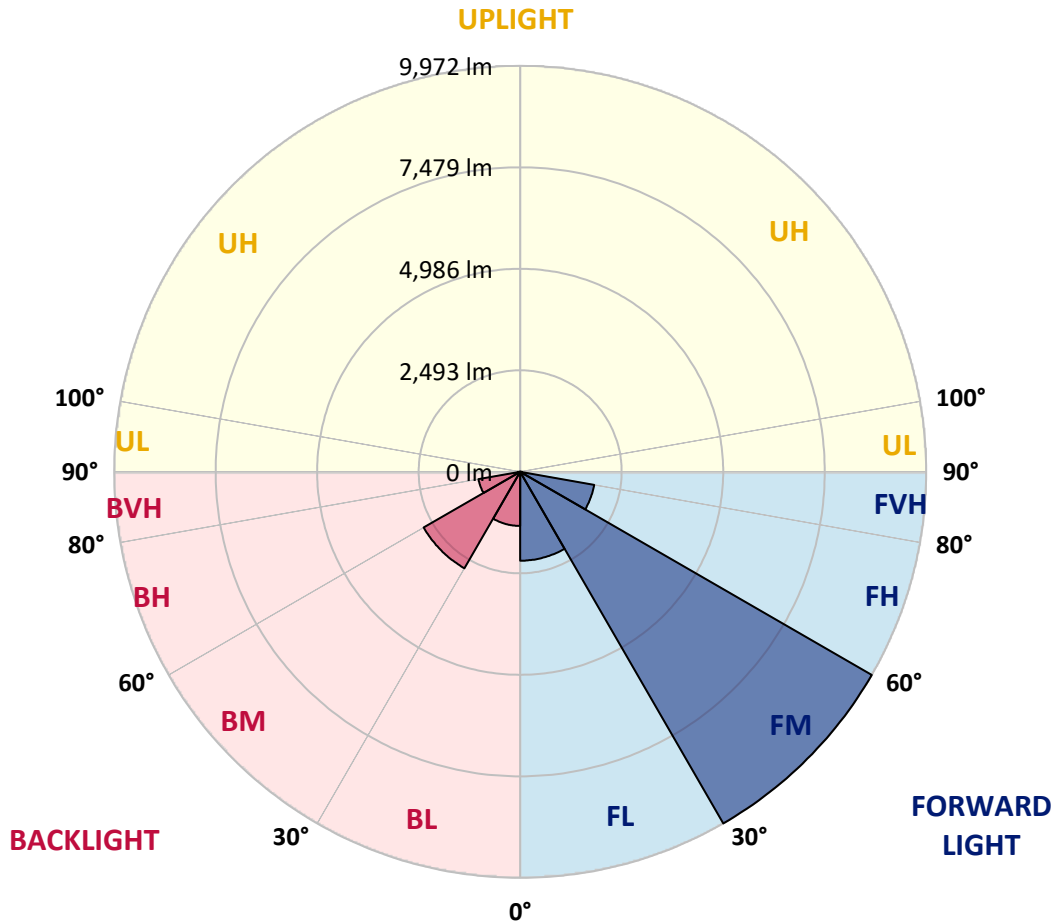


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2183.0	11.4			
FM (30°-60°)	9972.3	51.9			
FH (60°-80°)	1844.6	9.6			G2/5000
FVH (80°-90°)	45.1	0.2			G1/100
BL (0°-30°)	1329.1	6.9	B3/2500		
BM (30°-60°)	2737.0	14.2	B3/5000		
BH (60°-80°)	1039.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	59.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3675.6	3675.6	3675.6	3675.6	3675.6	3675.6	3675.6	3675.6	3675.6	3675.6	3675.6
2.5°	4049.1	3984.4	3979.4	3962.0	3971.9	3927.1	3879.8	3817.5	3752.8	3792.6	3698.0
5°	4333.0	4245.9	4280.7	4220.9	4228.4	4168.7	4071.5	3999.3	3919.6	3872.3	3805.1
7.5°	4432.6	4440.1	4465.0	4455.0	4405.2	4405.2	4340.5	4213.5	4074.0	4046.6	3934.6
10°	4567.1	4569.6	4542.2	4549.7	4619.4	4587.0	4529.7	4475.0	4295.7	4263.3	4064.1
12.5°	4614.4	4569.6	4614.4	4654.2	4736.4	4781.3	4768.8	4729.0	4537.2	4514.8	4223.4
15°	4621.9	4594.5	4631.8	4721.5	4793.7	4983.0	5077.6	5050.2	4796.2	4798.7	4402.7
17.5°	4587.0	4624.4	4639.3	4716.5	4883.4	5060.2	5334.1	5371.4	5162.3	5129.9	4629.3
20°	4634.3	4606.9	4626.9	4696.6	4918.2	5194.6	5553.2	5799.8	5505.9	5483.5	4863.4
22.5°	4816.1	4778.8	4773.8	4818.6	4978.0	5264.4	5784.8	6228.1	5924.3	5936.7	5154.8
25°	4958.1	4978.0	4960.5	4958.1	5057.7	5368.9	6091.1	6738.6	6492.0	6419.8	5498.4
27.5°	5202.1	5249.4	5214.6	5261.9	5239.5	5525.8	6310.3	7303.9	7104.6	7007.5	5809.7
30°	5540.8	5565.7	5533.3	5533.3	5466.1	5745.0	6509.5	7894.0	7811.9	7679.9	6175.8
32.5°	5986.5	6023.9	5959.1	5921.8	5911.8	6071.2	6868.1	8476.8	8616.2	8504.2	6661.4
35°	6576.7	6554.3	6477.1	6442.2	6307.8	6571.7	7401.0	9146.6	9512.7	9313.5	7249.1
37.5°	7097.2	7062.3	7057.3	6863.1	6895.5	7112.1	7854.2	9654.6	10381.8	10324.5	7869.1
40°	7582.8	7615.1	7667.4	7557.9	7508.1	7747.1	8382.1	10043.1	11056.6	11034.2	8347.3
42.5°	8103.2	8073.3	8165.5	8073.3	7998.6	8337.3	8954.9	10312.1	11649.3	11465.0	8847.8
45°	8857.8	8763.1	8795.5	8803.0	8748.2	8872.7	9191.5	10506.3	12065.2	12045.3	9213.9
47.5°	9487.8	9490.3	9435.5	9393.2	9226.3	9350.8	9455.4	10628.3	12543.3	12510.9	9355.8
50°	9721.9	9689.5	9848.9	9941.0	9951.0	9697.0	9662.1	10695.6	12794.8	12652.9	9497.8
52.5°	8880.2	8910.1	9161.6	9709.4	10025.7	10053.1	9903.7	10835.0	12896.9	12867.0	9612.3
55°	7147.0	7291.4	7704.8	8337.3	9086.9	9911.1	10165.1	10979.4	12951.7	12926.8	10120.3
56°	6282.9	6394.9	6932.8	7428.4	8369.7	9395.7	10000.8	11133.8	12994.0	13111.1	10239.8
57.5°	5057.7	5187.2	5573.1	6135.9	7246.6	8414.5	9547.6	10944.6	12829.7	12874.5	10327.0
60°	3162.6	3175.0	3638.2	4009.3	4791.2	5931.7	7286.4	9522.7	11873.4	11808.7	9276.1
62.5°	2074.4	2076.9	2497.7	2801.5	3157.6	3419.1	4288.2	6315.2	8760.6	8646.1	6604.1
65°	1456.8	1489.2	1815.4	2221.3	2365.7	2228.8	2201.4	3329.4	4893.3	4729.0	3548.6
67.5°	1065.8	1068.3	1357.2	1793.0	2002.1	1695.9	1377.1	1626.1	1937.4	1932.4	1643.6
70°	704.7	734.6	956.3	1339.7	1578.8	1362.2	1125.6	1162.9	1232.7	1232.7	1222.7
72.5°	410.9	438.3	585.2	849.2	886.5	851.7	891.5	996.1	1040.9	1038.4	1026.0
75°	234.1	246.5	278.9	353.6	440.8	520.5	654.9	754.5	799.4	826.8	794.4
77.5°	137.0	144.4	164.4	201.7	229.1	281.4	356.1	425.8	485.6	478.1	483.1
80°	72.2	72.2	92.1	119.5	159.4	199.2	236.6	276.4	308.8	316.3	323.7
82.5°	42.3	44.8	59.8	87.2	114.6	141.9	181.8	209.2	239.1	241.6	246.5
85°	22.4	24.9	37.4	57.3	77.2	87.2	89.6	84.7	92.1	87.2	99.6
87.5°	7.5	7.5	12.5	10.0	10.0	12.5	14.9	14.9	19.9	19.9	19.9
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°	3675.6	3675.6	3675.6	3675.6	3675.6	3675.6	3675.6	3675.6	3675.6	3675.6	3675.6
2.5°	3695.5	3695.5	3653.2	3573.5	3561.0	3528.7	3498.8	3496.3	3473.9	3454.0	3444.0
5°	3765.2	3688.0	3625.8	3553.6	3468.9	3429.1	3384.2	3334.4	3314.5	3334.4	3331.9
7.5°	3844.9	3780.2	3593.4	3458.9	3361.8	3322.0	3272.2	3219.9	3224.9	3224.9	3190.0
10°	3922.1	3835.0	3536.1	3364.3	3222.4	3192.5	3165.1	3185.0	3209.9	3214.9	3192.5
12.5°	4051.6	3854.9	3508.7	3269.7	3180.0	3115.3	3132.7	3187.5	3239.8	3224.9	3242.3
15°	4148.7	3872.3	3384.2	3172.6	3060.5	3090.4	3152.6	3190.0	3277.1	3267.2	3284.6
17.5°	4243.4	3882.3	3262.2	3043.1	2995.8	3077.9	3125.2	3232.3	3259.7	3319.5	3341.9
20°	4437.6	3902.2	3137.7	2963.4	2948.4	3043.1	3125.2	3175.0	3234.8	3287.1	3287.1
22.5°	4537.2	3892.2	3055.5	2858.8	2906.1	2965.9	3040.6	3125.2	3125.2	3175.0	3177.5
25°	4661.7	3852.4	2926.0	2809.0	2843.8	2901.1	2985.8	2955.9	2988.3	2988.3	3028.1
27.5°	4803.7	3767.7	2814.0	2719.3	2789.1	2851.3	2863.8	2843.8	2806.5	2801.5	2786.6
30°	4918.2	3663.1	2731.8	2689.5	2746.7	2781.6	2741.7	2699.4	2634.7	2629.7	2594.8
32.5°	5075.1	3533.6	2629.7	2614.7	2679.5	2682.0	2669.5	2604.8	2510.2	2470.3	2430.5
35°	5339.1	3458.9	2552.5	2574.9	2594.8	2587.4	2564.9	2495.2	2400.6	2383.2	2368.2
37.5°	5533.3	3404.2	2472.8	2500.2	2517.6	2527.6	2460.4	2383.2	2385.6	2350.8	2340.8
40°	5752.4	3369.3	2408.1	2420.5	2423.0	2455.4	2373.2	2335.8	2353.3	2330.9	2345.8
42.5°	6033.8	3379.2	2340.8	2330.9	2378.2	2365.7	2325.9	2276.1	2286.0	2218.8	2228.8
45°	6183.3	3446.5	2301.0	2256.2	2308.4	2306.0	2253.7	2206.3	2146.6	2017.1	2022.1
47.5°	6282.9	3463.9	2206.3	2176.5	2231.3	2263.6	2203.9	2094.3	2009.6	1917.5	1895.1
50°	6385.0	3496.3	2161.5	2099.3	2121.7	2198.9	2124.2	2019.6	1937.4	1855.2	1867.7
52.5°	6474.6	3558.5	2074.4	1982.2	2022.1	2106.7	2066.9	1939.9	1850.2	1783.0	1763.1
55°	6873.0	3698.0	1927.4	1807.9	1902.5	2009.6	1987.2	1832.8	1735.7	1700.8	1695.9
56°	6935.3	3703.0	1850.2	1748.1	1835.3	1977.2	1949.9	1785.5	1698.3	1643.6	1646.0
57.5°	6945.3	3643.2	1740.7	1693.4	1768.1	1929.9	1895.1	1748.1	1628.6	1578.8	1563.9
60°	6111.0	2843.8	1603.7	1573.8	1661.0	1785.5	1773.0	1646.0	1511.6	1454.3	1481.7
62.5°	4166.2	2084.3	1496.6	1491.7	1536.5	1658.5	1626.1	1511.6	1399.5	1362.2	1344.7
65°	2425.5	1581.3	1392.0	1372.1	1409.5	1474.2	1496.6	1377.1	1260.1	1235.2	1227.7
67.5°	1431.9	1307.4	1257.6	1225.2	1212.7	1252.6	1270.0	1200.3	1083.3	1048.4	1078.3
70°	1197.8	1162.9	1165.4	1110.6	1080.8	1053.4	1038.4	976.2	879.1	834.2	821.8
72.5°	1033.4	1018.5	1008.5	958.7	931.3	869.1	804.3	742.1	669.9	632.5	635.0
75°	789.4	784.4	789.4	764.5	717.2	667.4	607.6	527.9	473.1	425.8	435.8
77.5°	470.7	485.6	493.1	483.1	463.2	418.4	381.0	328.7	276.4	239.1	234.1
80°	323.7	336.2	348.6	336.2	316.3	283.9	244.0	204.2	166.8	146.9	141.9
82.5°	246.5	259.0	266.5	254.0	229.1	194.2	166.8	139.5	109.6	89.6	84.7
85°	89.6	102.1	99.6	119.5	129.5	124.5	107.1	82.2	62.3	44.8	42.3
87.5°	24.9	22.4	24.9	24.9	24.9	22.4	19.9	19.9	19.9	12.5	10.0
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)