

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P633441

Luminaire Tested: GWS-SA2E-760-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-760-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12906.3 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

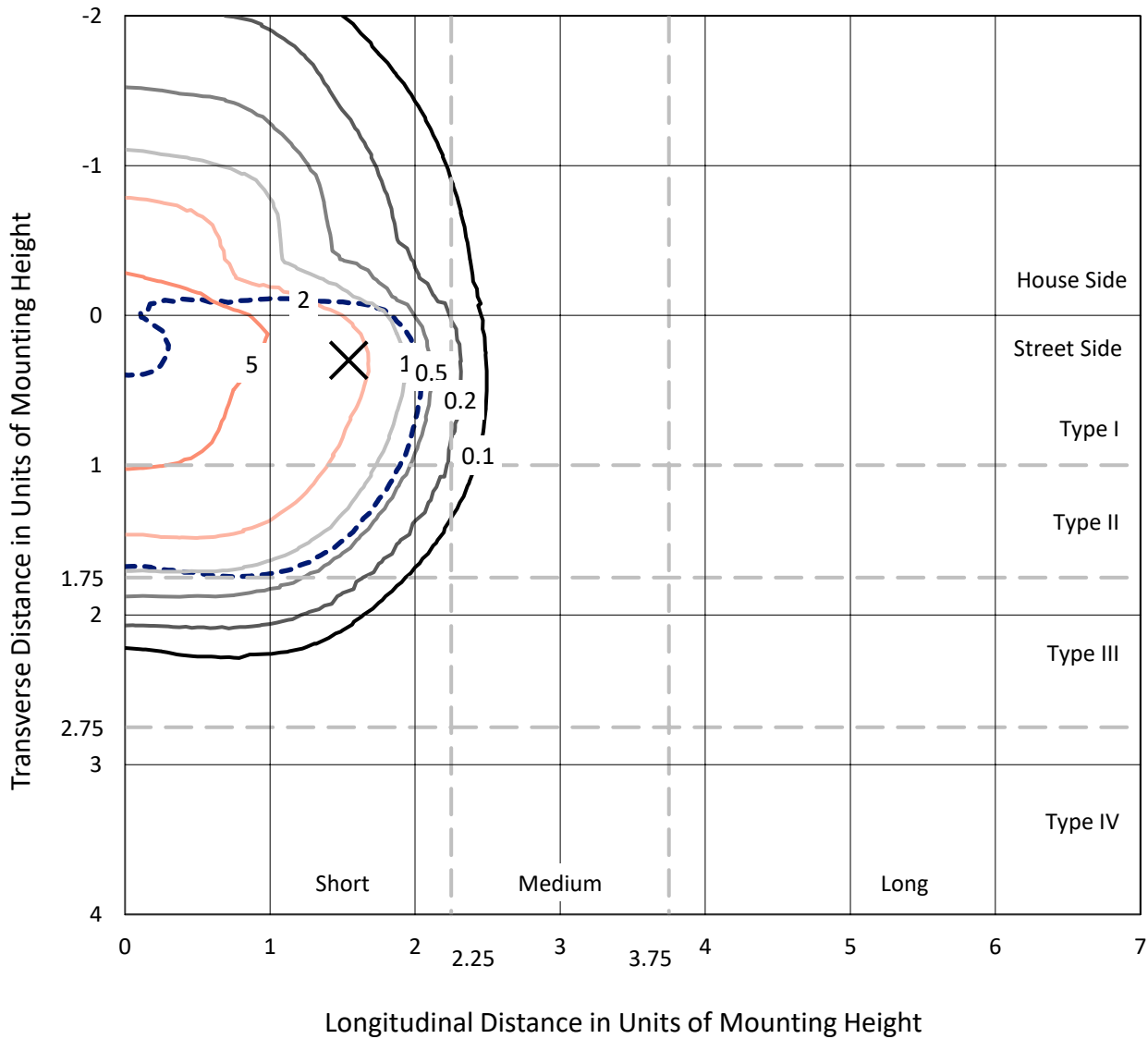
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

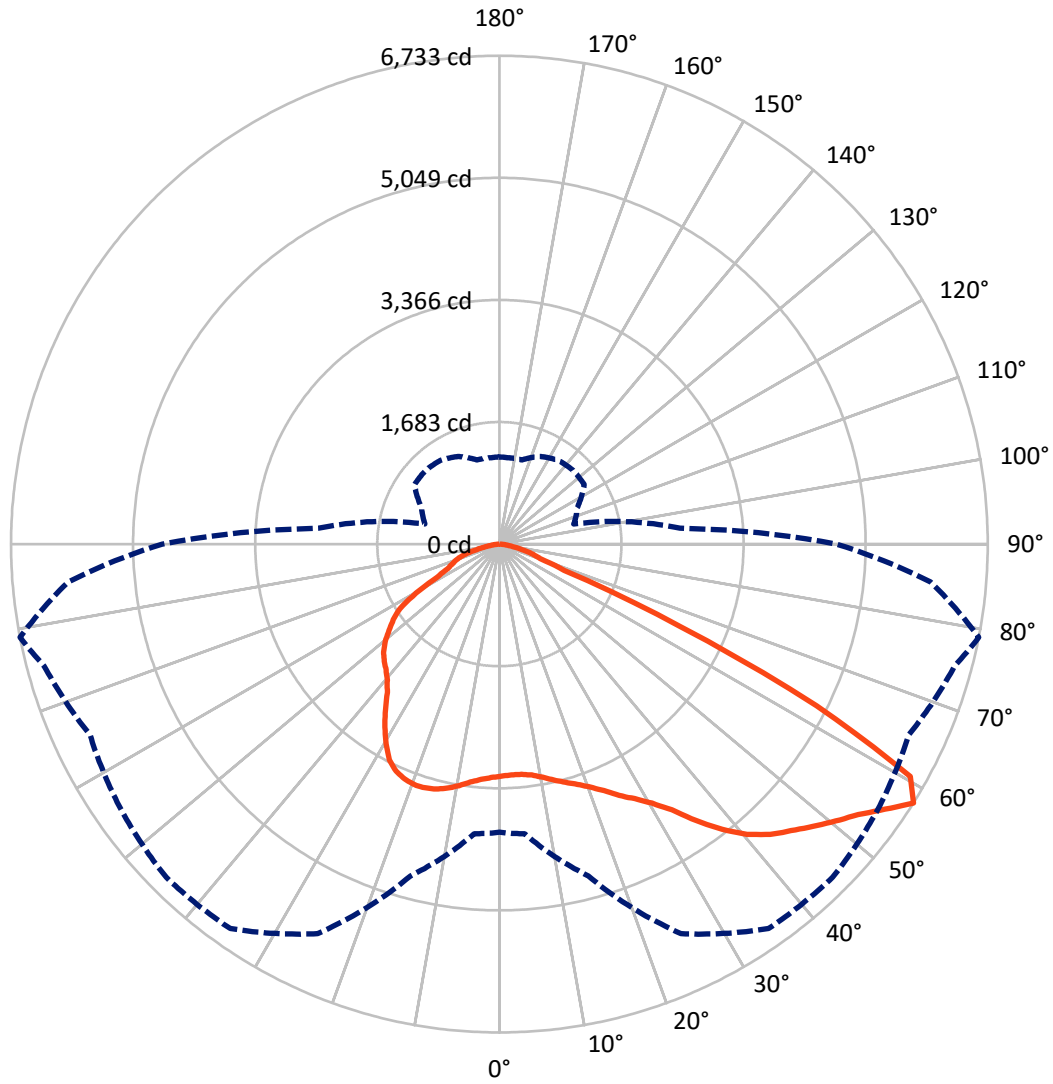
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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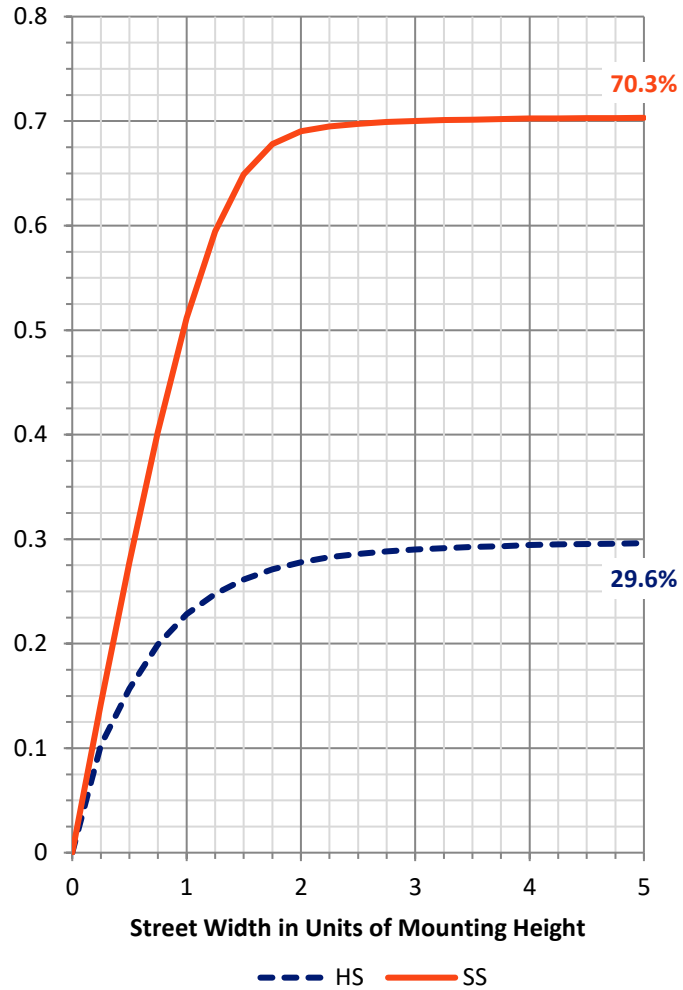
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3836.5	0.0	3836.5
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	9069.9	0.0	9069.9
	% Fixture	70.3	0.0	70.3
Total	Lumens	12906.3	0.0	12906.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.2	2.3
10°-20°	823.2	6.4
20°-30°	1395.3	10.8
30°-40°	2135.7	16.5
40°-50°	2847.7	22.1
50°-60°	3288.9	25.5
60°-70°	1709.0	13.2
70°-80°	363.3	2.8
80°-90°	47.1	0.4
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°	12906.3	100.0
0°-180°	12906.3	100.0

Coefficient of Utilization



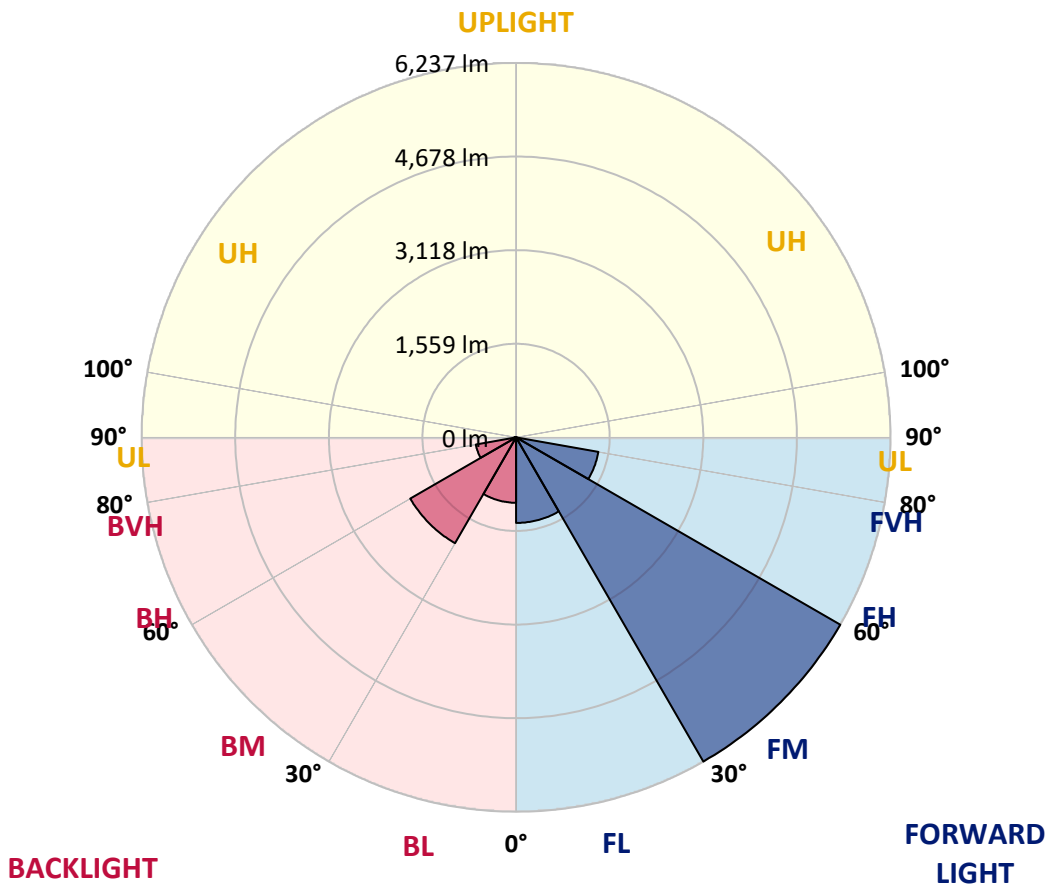
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1425.1	11.0			
FM (30°-60°)	6236.7	48.3			
FH (60°-80°)	1391.6	10.8			G1/1800
FVH (80°-90°)	16.4	0.1			G1/100
BL (0°-30°)	1089.5	8.4	B3/2500		
BM (30°-60°)	2035.6	15.8	B2/2500		
BH (60°-80°)	680.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	30.7	0.2			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°	79°	85°
0°	3198.5	3198.5	3198.5	3198.5	3198.5	3198.5	3198.5	3198.5	3198.5	3198.5	3198.5
2.5°	3052.9	3046.5	3048.6	3057.1	3088.7	3111.9	3136.2	3158.4	3179.5	3185.8	3191.1
5°	2944.2	2932.6	2935.7	2949.4	2986.4	3025.4	3068.7	3121.4	3172.1	3189.0	3211.1
7.5°	2867.1	2865.0	2870.3	2891.4	2930.4	2967.4	3023.3	3098.2	3185.8	3214.3	3253.4
10°	2764.8	2760.5	2781.7	2824.9	2889.3	2948.4	3014.9	3103.5	3225.9	3268.1	3328.3
12.5°	2683.5	2681.4	2703.6	2763.7	2846.0	2939.9	3031.7	3130.9	3279.7	3337.8	3411.6
15°	2731.0	2721.5	2722.6	2764.8	2838.6	2949.4	3074.0	3180.5	3333.6	3407.4	3502.4
17.5°	2869.2	2852.4	2839.7	2847.1	2889.3	3004.3	3138.3	3247.0	3395.8	3482.3	3598.4
20°	3060.2	3050.7	3015.9	2992.7	3002.2	3103.5	3239.6	3340.9	3477.1	3574.2	3698.7
22.5°	3316.7	3293.5	3246.0	3209.0	3180.5	3259.7	3385.3	3472.8	3590.0	3691.3	3821.1
25°	3634.3	3600.5	3525.6	3467.6	3406.4	3487.6	3599.5	3666.0	3745.1	3839.0	3962.5
27.5°	3958.3	3929.8	3846.4	3768.3	3692.3	3743.0	3876.0	3913.9	3905.5	3974.1	4079.6
30°	4303.3	4267.5	4188.3	4103.9	4005.8	4038.5	4157.7	4176.7	4087.0	4144.0	4215.7
32.5°	4667.4	4632.6	4564.0	4465.8	4355.0	4367.7	4400.4	4418.4	4332.9	4365.6	4420.5
35°	5037.8	5005.1	4935.4	4838.3	4757.1	4680.1	4597.7	4669.5	4619.9	4683.2	4679.0
37.5°	5376.5	5343.8	5300.5	5225.6	5086.3	4934.4	4744.4	4833.1	4910.1	4990.3	4976.6
40°	5605.5	5583.4	5593.9	5582.3	5402.9	5102.2	4816.2	4913.3	5123.3	5260.4	5253.1
42.5°	5802.9	5780.7	5841.9	5886.2	5675.2	5257.3	4851.0	4943.9	5259.4	5473.6	5463.1
45°	5890.4	5884.1	5985.4	6125.8	5924.2	5421.9	4940.7	5007.2	5362.8	5637.2	5597.1
47.5°	5786.0	5808.1	6007.6	6245.0	6131.0	5617.1	5124.3	5141.2	5497.9	5814.5	5701.5
50°	5578.1	5626.6	5895.7	6248.2	6281.9	5837.7	5378.6	5336.4	5679.4	6003.3	5756.4
52.5°	5275.2	5325.9	5764.9	6223.9	6368.5	6093.0	5717.4	5657.2	5908.4	6192.2	5765.9
55°	4579.8	4648.4	5465.2	6169.0	6452.9	6325.2	6099.4	5977.0	6203.8	6451.8	5859.8
57.5°	3973.0	4008.9	4734.9	5925.3	6469.8	6496.2	6371.6	6226.0	6497.2	6732.5	5965.4
60°	2915.7	2924.1	3577.3	4902.7	5951.6	6397.0	6349.5	6133.1	6357.9	6507.8	5482.1
62.5°	1647.3	1648.3	2169.6	3272.3	4445.8	5214.0	5243.6	5052.6	4863.7	4908.0	3815.8
65°	618.4	676.4	990.9	1608.2	2563.2	3078.2	3200.6	3244.9	2930.4	2735.2	2046.1
67.5°	413.7	427.4	578.3	827.3	1140.7	1317.0	1473.1	1477.4	1080.6	963.4	806.2
70°	315.5	329.2	454.8	592.0	578.3	534.0	577.2	561.4	580.4	596.2	613.1
72.5°	235.3	249.0	352.5	417.9	347.2	341.9	387.3	430.5	470.6	487.5	513.9
75°	156.2	166.7	237.4	223.7	192.1	226.9	282.8	326.1	349.3	369.3	389.4
77.5°	99.2	106.6	126.6	102.4	106.6	133.0	164.6	203.7	225.8	245.9	256.4
80°	45.4	44.3	43.3	48.5	60.1	78.1	99.2	122.4	139.3	147.7	154.1
82.5°	17.9	20.0	22.2	26.4	32.7	42.2	55.9	71.8	85.5	87.6	92.9
85°	7.4	8.4	9.5	11.6	14.8	19.0	23.2	32.7	41.2	44.3	47.5
87.5°	0.0	0.0	0.0	0.0	1.1	2.1	3.2	5.3	9.5	10.6	11.6
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°	3198.5	3198.5	3198.5	3198.5	3198.5	3198.5	3198.5	3198.5	3198.5	3198.5	3198.5
2.5°	3219.6	3205.9	3229.1	3244.9	3259.7	3243.9	3238.6	3224.9	3222.8	3222.8	3230.1
5°	3249.1	3239.6	3263.9	3273.4	3272.3	3237.5	3216.4	3189.0	3175.3	3175.3	3177.4
7.5°	3301.9	3296.6	3310.3	3295.6	3261.8	3191.1	3121.4	3063.4	3024.4	3004.3	3010.6
10°	3389.5	3383.1	3371.5	3316.7	3219.6	3072.9	2930.4	2824.9	2761.6	2725.7	2727.8
12.5°	3475.0	3464.4	3423.2	3301.9	3102.5	2869.2	2682.5	2564.3	2494.6	2452.4	2442.9
15°	3568.9	3541.4	3452.8	3225.9	2911.5	2620.2	2425.0	2297.3	2222.4	2197.0	2196.0
17.5°	3658.6	3610.0	3449.6	3090.8	2682.5	2359.6	2163.3	2084.1	2071.5	2083.1	2086.2
20°	3749.3	3671.2	3414.8	2904.1	2410.2	2100.0	1998.7	2031.4	2078.9	2110.5	2117.9
22.5°	3843.2	3721.9	3335.7	2663.5	2123.2	1924.8	1967.0	2038.8	2097.8	2140.1	2144.3
25°	3948.8	3769.4	3217.5	2369.0	1893.1	1876.2	1959.6	2035.6	2098.9	2147.4	2155.9
27.5°	4008.9	3770.4	3051.8	2066.2	1787.6	1857.2	1941.7	2013.4	2076.7	2129.5	2139.0
30°	4068.0	3741.9	2789.0	1820.3	1757.0	1835.1	1911.1	1977.5	2037.7	2089.4	2101.0
32.5°	4151.4	3715.6	2486.2	1678.9	1739.1	1814.0	1876.2	1935.3	1981.8	2005.0	2011.3
35°	4254.8	3681.8	2164.3	1617.7	1727.5	1797.1	1852.0	1883.6	1823.5	1810.8	1824.5
37.5°	4399.4	3650.1	1843.5	1591.3	1720.1	1790.8	1839.3	1758.1	1684.2	1654.6	1665.2
40°	4555.5	3632.2	1626.1	1570.2	1723.2	1797.1	1786.5	1666.2	1559.7	1497.4	1495.3
42.5°	4688.5	3604.8	1486.9	1556.5	1731.7	1821.4	1714.8	1585.0	1426.7	1389.8	1390.8
45°	4778.2	3535.1	1413.0	1541.7	1739.1	1826.6	1681.0	1473.1	1360.2	1337.0	1336.0
47.5°	4815.1	3408.5	1365.5	1518.5	1738.0	1783.4	1612.4	1426.7	1313.8	1307.5	1311.7
50°	4790.9	3200.6	1317.0	1473.1	1712.7	1738.0	1533.3	1385.6	1282.1	1317.0	1342.3
52.5°	4701.2	2931.5	1258.9	1410.9	1667.3	1686.3	1493.2	1360.2	1258.9	1305.4	1325.4
55°	4677.9	2713.1	1185.1	1329.6	1599.8	1594.5	1451.0	1347.6	1243.1	1225.2	1228.3
57.5°	4647.3	2499.9	1062.6	1184.0	1428.8	1437.3	1410.9	1332.8	1201.9	1196.7	1201.9
60°	4037.4	1916.3	947.6	1021.5	1173.4	1218.8	1365.5	1305.4	1135.5	1113.3	1112.2
62.5°	2637.1	1160.8	843.1	890.6	956.1	1008.8	1245.2	1226.2	1062.6	1048.9	1058.4
65°	1418.3	827.3	767.2	795.7	831.5	871.6	1032.0	1092.2	960.3	911.7	912.8
67.5°	725.0	703.9	710.2	730.2	757.7	777.7	832.6	885.4	818.9	777.7	776.7
70°	620.5	637.4	646.9	658.5	676.4	673.3	678.5	688.0	682.8	662.7	661.6
72.5°	528.7	555.1	557.2	559.3	565.6	550.8	541.3	525.5	526.6	529.7	530.8
75°	402.1	427.4	433.7	430.5	436.9	417.9	405.2	389.4	370.4	367.2	369.3
77.5°	261.7	281.8	291.3	289.1	292.3	277.5	271.2	254.3	232.2	223.7	223.7
80°	158.3	169.9	177.3	179.4	182.6	172.0	161.5	146.7	137.2	127.7	127.7
82.5°	96.0	103.4	108.7	108.7	111.9	100.2	91.8	81.3	77.0	68.6	68.6
85°	48.5	53.8	55.9	54.9	52.8	43.3	40.1	34.8	32.7	28.5	28.5
87.5°	11.6	14.8	14.8	10.6	10.6	5.3	3.2	1.1	0.0	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)