

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: P633869

Luminaire Tested: GWS-SA2F-750-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-750-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13835.1 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

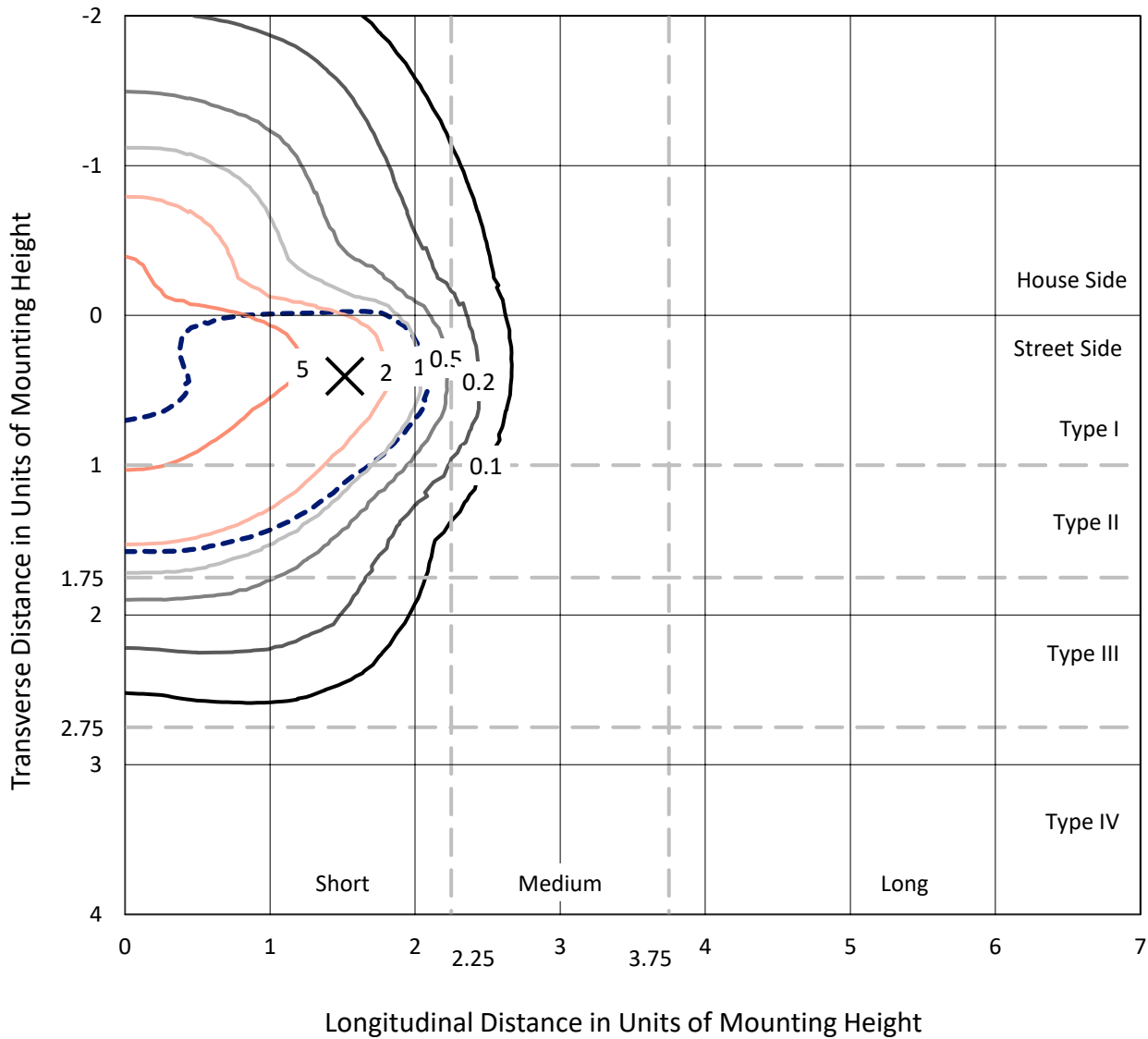
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633869
 CATALOG NUMBER: GWS-SA2F-750-U-T2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

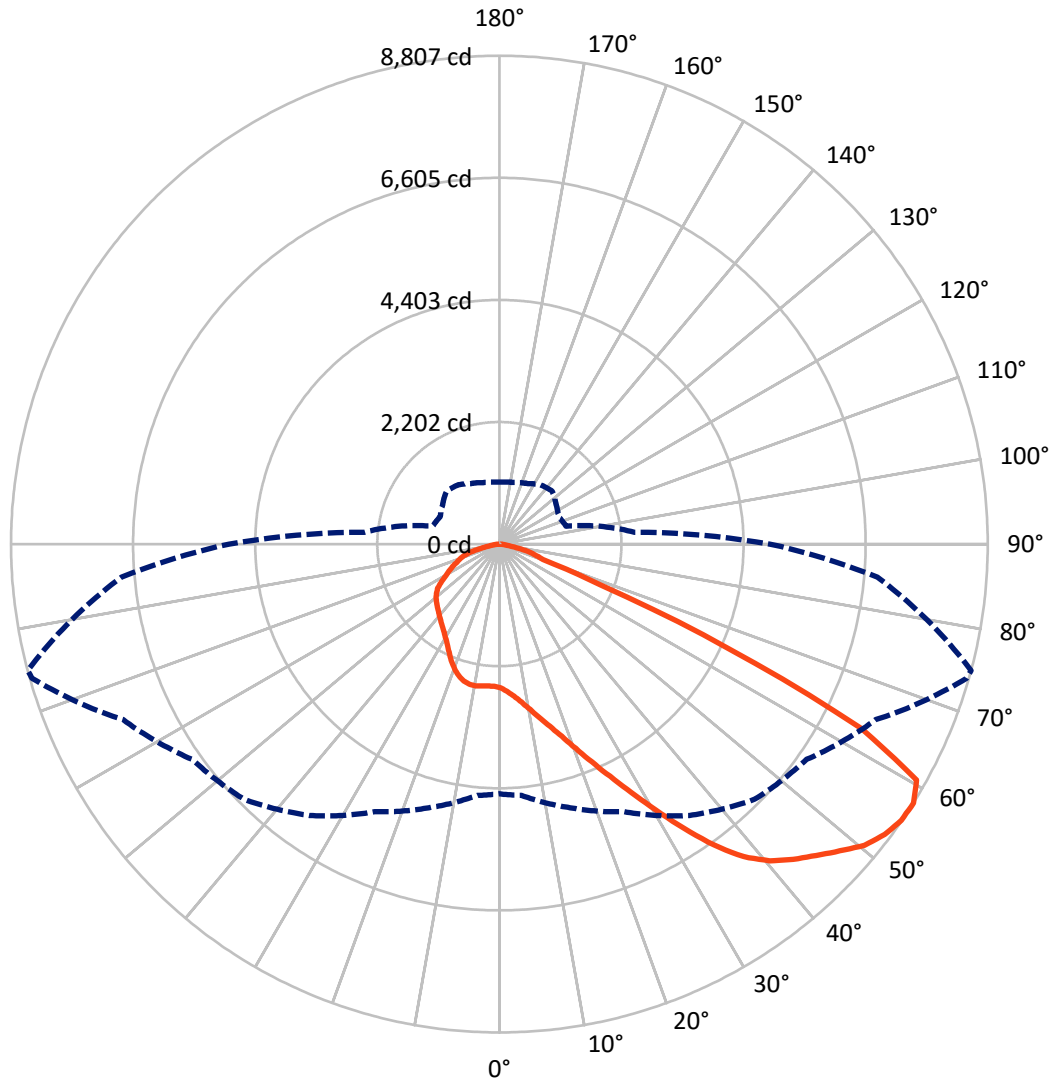
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

REPORT NUMBER: P633869
CATALOG NUMBER: GWS-SA2F-750-U-T2-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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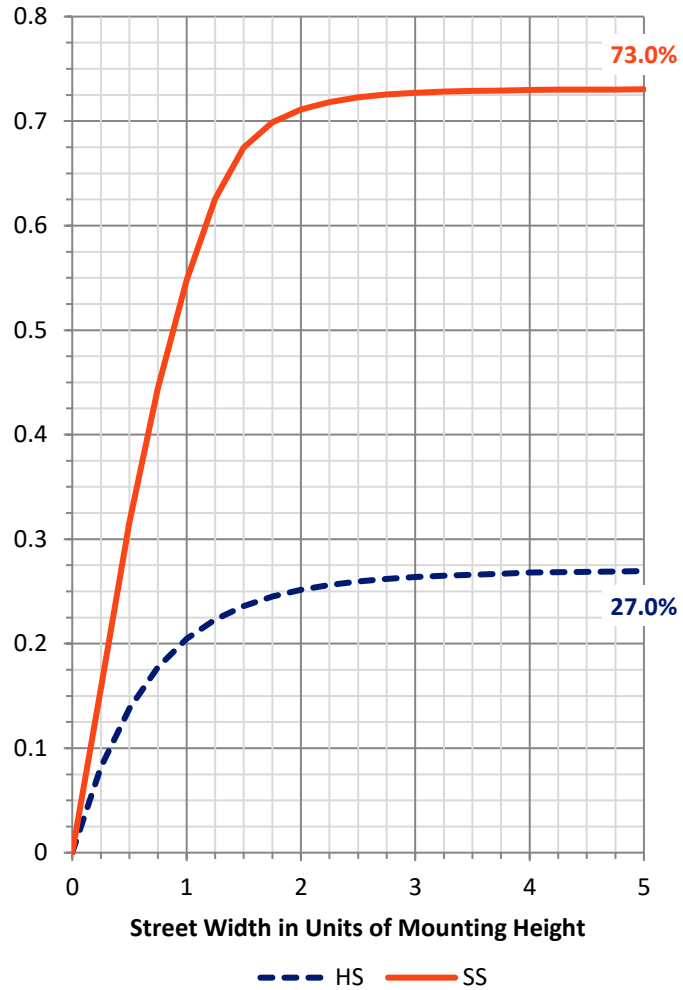
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3742.7	0.0	3742.7
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	10092.4	0.0	10092.4
	% Fixture	72.9	0.0	72.9
Total	Lumens	13835.1	0.0	13835.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.3	1.9
10°-20°	825.5	6.0
20°-30°	1464.0	10.6
30°-40°	2241.1	16.2
40°-50°	3120.6	22.6
50°-60°	3575.5	25.8
60°-70°	1837.2	13.3
70°-80°	462.5	3.3
80°-90°	49.4	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°	13835.1	100.0
0°-180°	13835.1	100.0

Coefficient of Utilization



REPORT NUMBER: P633869

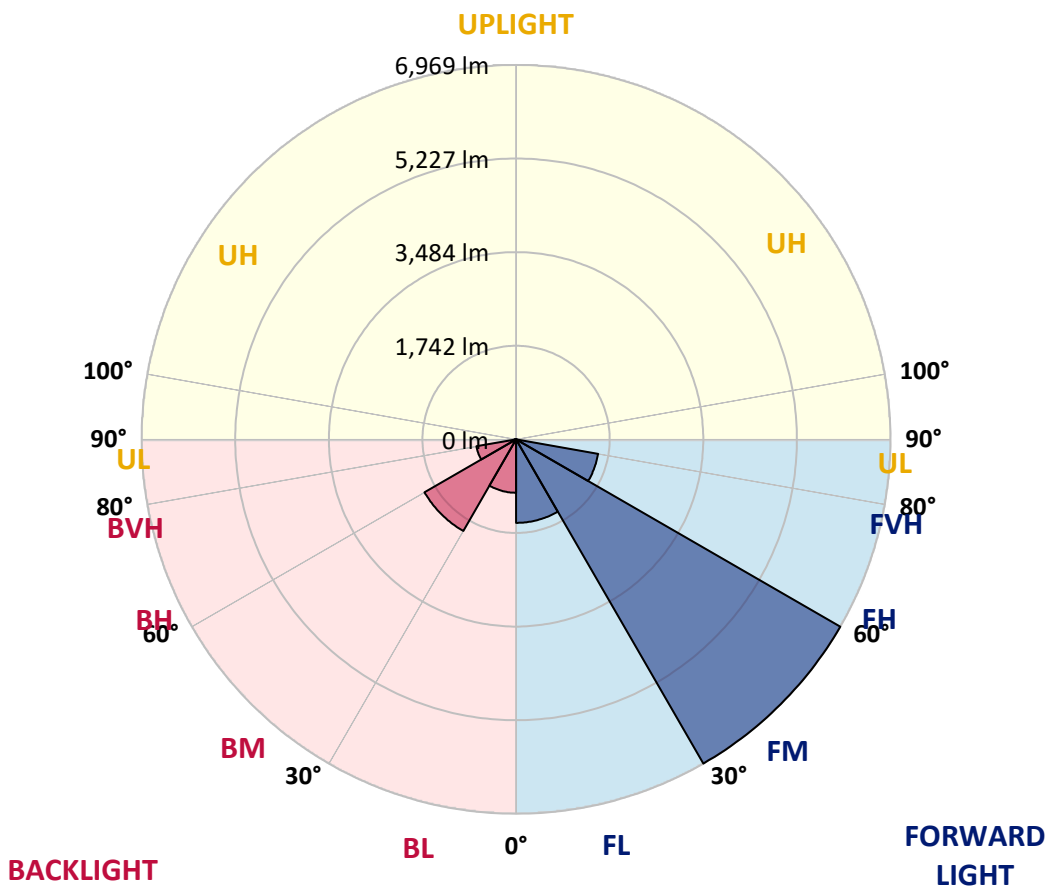
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1554.5	11.2			
FM (30°-60°)	6968.9	50.4			
FH (60°-80°)	1550.8	11.2			G1/1800
FVH (80°-90°)	18.3	0.1			G1/100
BL (0°-30°)	994.3	7.2	B2/1000		
BM (30°-60°)	1968.3	14.2	B2/2500		
BH (60°-80°)	748.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	31.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P633869

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0
2.5°	2783.7	2790.8	2783.7	2795.6	2771.8	2761.1	2734.9	2695.7	2664.7	2660.0	2625.5
5°	3000.2	3015.7	3006.2	3001.4	2969.3	2945.5	2906.2	2827.7	2763.5	2754.0	2686.2
7.5°	3139.4	3150.1	3150.1	3153.7	3141.8	3114.4	3072.8	2980.0	2889.6	2875.3	2773.0
10°	3185.8	3194.1	3209.6	3239.3	3263.1	3271.4	3244.1	3154.9	3044.2	3030.0	2887.2
12.5°	3196.5	3206.0	3229.8	3284.5	3350.0	3409.4	3414.2	3348.8	3225.0	3209.6	3019.2
15°	3216.7	3226.2	3258.4	3326.2	3422.5	3536.7	3606.9	3561.7	3424.9	3408.2	3169.1
17.5°	3214.3	3225.0	3272.6	3363.0	3492.7	3658.1	3793.7	3812.7	3671.2	3642.6	3339.3
20°	3208.4	3217.9	3269.1	3379.7	3540.3	3767.5	4012.6	4111.3	3959.0	3932.9	3537.9
22.5°	3256.0	3266.7	3305.9	3397.5	3565.3	3852.0	4214.8	4452.7	4300.5	4263.6	3766.3
25°	3363.0	3378.5	3402.3	3465.3	3610.5	3926.9	4421.8	4839.4	4683.5	4639.5	4015.0
27.5°	3528.4	3547.4	3580.7	3610.5	3711.6	4022.1	4627.6	5272.4	5116.5	5070.1	4277.9
30°	3730.6	3755.6	3798.4	3818.7	3887.7	4162.5	4851.3	5718.5	5628.1	5563.8	4574.1
32.5°	4010.2	4044.7	4085.1	4091.1	4132.7	4375.4	5072.5	6161.0	6159.8	6114.6	4910.7
35°	4374.2	4411.1	4419.4	4427.7	4448.0	4668.1	5340.2	6564.3	6720.1	6667.8	5277.1
37.5°	4771.5	4825.1	4838.2	4801.3	4829.8	5020.2	5641.2	6887.9	7207.9	7152.0	5631.6
40°	5196.2	5217.7	5253.3	5195.0	5230.7	5423.5	5936.2	7094.9	7571.9	7512.4	5911.2
42.5°	5500.8	5540.0	5593.6	5572.2	5592.4	5768.4	6143.2	7194.8	7831.2	7771.8	6112.2
45°	5831.5	5843.4	5877.9	5873.1	5885.0	6049.2	6291.9	7238.8	8063.2	8009.7	6283.5
47.5°	6119.4	6137.2	6159.8	6133.7	6107.5	6214.6	6413.2	7276.9	8330.9	8266.6	6463.2
50°	6396.6	6412.0	6439.4	6363.3	6265.7	6293.1	6472.7	7329.2	8581.9	8536.7	6604.7
52.5°	6447.7	6464.4	6592.8	6608.3	6483.4	6387.0	6577.4	7444.6	8729.4	8700.8	6655.9
55°	5804.1	5833.9	6089.6	6383.5	6691.6	6660.7	6745.1	7505.3	8787.7	8794.8	6747.5
57.5°	4505.1	4547.9	4921.4	5324.7	5973.1	6509.6	6766.5	7489.8	8767.5	8806.7	6841.5
60°	2955.0	2980.0	3422.5	3874.6	4546.7	5289.0	6056.3	7211.4	8587.8	8643.7	6817.7
62.5°	1784.4	1813.0	2168.7	2511.3	2907.4	3403.5	4107.7	5795.8	7198.4	7323.3	5460.3
65°	1245.5	1283.6	1595.3	1877.2	2014.0	1911.7	2080.6	3236.9	4484.8	4537.2	3336.9
67.5°	902.9	929.1	1184.9	1520.3	1671.4	1350.2	1029.0	1433.5	1953.3	1972.4	1376.4
70°	591.2	621.0	853.0	1157.5	1364.5	1094.4	769.7	775.6	822.0	831.5	799.4
72.5°	324.8	342.6	527.0	768.5	806.6	654.3	600.8	644.8	676.9	676.9	685.2
75°	167.7	183.2	215.3	253.4	305.7	358.1	433.0	498.4	532.9	535.3	531.8
77.5°	85.7	91.6	115.4	124.9	136.8	159.4	207.0	265.3	296.2	308.1	305.7
80°	40.4	42.8	48.8	57.1	70.2	89.2	111.8	133.2	152.3	154.6	167.7
82.5°	21.4	23.8	26.2	30.9	38.1	47.6	65.4	78.5	90.4	92.8	103.5
85°	8.3	9.5	10.7	11.9	16.7	20.2	27.4	36.9	45.2	45.2	53.5
87.5°	0.0	0.0	0.0	0.0	1.2	2.4	4.8	5.9	8.3	8.3	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633869

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0	2591.0
2.5°	2617.2	2582.7	2567.2	2542.2	2522.0	2499.4	2481.5	2468.5	2460.1	2455.4	2450.6
5°	2660.0	2607.6	2566.0	2516.0	2481.5	2448.2	2420.9	2401.8	2392.3	2385.2	2380.4
7.5°	2726.6	2656.4	2577.9	2500.6	2439.9	2386.4	2351.9	2331.6	2318.6	2313.8	2310.2
10°	2818.2	2720.7	2591.0	2468.5	2378.0	2319.7	2296.0	2286.4	2287.6	2285.3	2284.1
12.5°	2921.7	2788.5	2587.4	2411.4	2311.4	2276.9	2278.1	2293.6	2311.4	2316.2	2317.4
15°	3033.5	2855.1	2552.9	2337.6	2259.1	2262.6	2293.6	2330.5	2363.8	2376.9	2379.2
17.5°	3154.9	2911.0	2489.9	2256.7	2216.3	2254.3	2311.4	2372.1	2420.9	2442.3	2448.2
20°	3290.5	2958.6	2400.6	2177.0	2175.8	2238.9	2322.1	2401.8	2463.7	2492.2	2497.0
22.5°	3434.4	2988.3	2291.2	2103.2	2134.2	2218.6	2313.8	2397.1	2462.5	2491.1	2497.0
25°	3579.6	2997.8	2171.0	2035.4	2091.3	2186.5	2273.4	2340.0	2401.8	2426.8	2431.6
27.5°	3715.2	2970.5	2056.8	1977.1	2052.1	2138.9	2197.2	2232.9	2275.7	2294.8	2298.3
30°	3853.2	2915.7	1960.5	1930.7	2008.1	2073.5	2099.7	2102.1	2118.7	2118.7	2121.1
32.5°	3992.3	2834.9	1876.0	1885.5	1953.3	1996.2	1999.7	1972.4	1952.2	1918.8	1917.7
35°	4152.9	2752.8	1807.0	1834.4	1889.1	1915.3	1904.6	1852.2	1803.5	1748.7	1746.4
37.5°	4301.6	2668.3	1748.7	1782.0	1816.5	1835.6	1810.6	1747.5	1707.1	1651.2	1642.9
40°	4424.2	2592.2	1692.8	1727.3	1744.0	1760.6	1720.2	1669.0	1675.0	1644.0	1642.9
42.5°	4495.6	2518.4	1640.5	1666.7	1677.4	1689.3	1653.6	1615.5	1647.6	1623.8	1625.0
45°	4547.9	2454.2	1592.9	1602.4	1628.6	1646.4	1613.1	1570.3	1577.4	1485.8	1464.4
47.5°	4607.4	2418.5	1547.7	1538.2	1584.6	1615.5	1564.3	1502.5	1459.7	1369.2	1360.9
50°	4670.4	2405.4	1500.1	1473.9	1529.8	1559.6	1500.1	1422.8	1366.9	1318.1	1313.3
52.5°	4691.8	2404.2	1440.6	1396.6	1452.5	1494.2	1444.2	1365.7	1299.1	1251.5	1249.1
55°	4776.3	2438.7	1364.5	1290.7	1343.1	1428.7	1391.8	1278.8	1225.3	1203.9	1201.5
57.5°	4875.0	2444.7	1244.3	1175.3	1247.9	1349.0	1302.6	1205.1	1146.8	1120.6	1118.2
60°	4834.6	2298.3	1115.9	1087.3	1167.0	1274.1	1231.3	1146.8	1079.0	1054.0	1051.6
62.5°	3684.2	1622.6	1021.9	1011.2	1080.2	1165.8	1157.5	1069.5	1005.2	987.4	985.0
65°	2216.3	1139.7	931.5	930.3	979.1	1061.1	1071.8	1000.5	932.7	907.7	907.7
67.5°	1095.6	872.0	829.2	823.2	854.1	912.4	957.6	899.3	842.2	818.5	814.9
70°	774.4	768.5	754.2	737.6	743.5	767.3	786.3	737.6	676.9	653.1	648.3
72.5°	669.8	670.9	661.4	648.3	643.6	626.9	610.3	574.6	537.7	512.7	515.1
75°	519.9	522.2	528.2	523.4	510.3	492.5	474.7	429.5	399.7	375.9	371.2
77.5°	303.4	315.2	334.3	329.5	331.9	306.9	299.8	255.8	228.4	211.8	208.2
80°	171.3	178.4	186.8	192.7	185.6	174.9	159.4	135.6	127.3	115.4	113.0
82.5°	103.5	110.6	114.2	119.0	116.6	102.3	90.4	74.9	67.8	61.9	60.7
85°	52.3	57.1	60.7	63.0	55.9	46.4	41.6	33.3	28.6	25.0	25.0
87.5°	13.1	14.3	16.7	14.3	13.1	5.9	4.8	1.2	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)