

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: P633771

Luminaire Tested: GWS-SA2F-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633771
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-SA2F-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14028 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

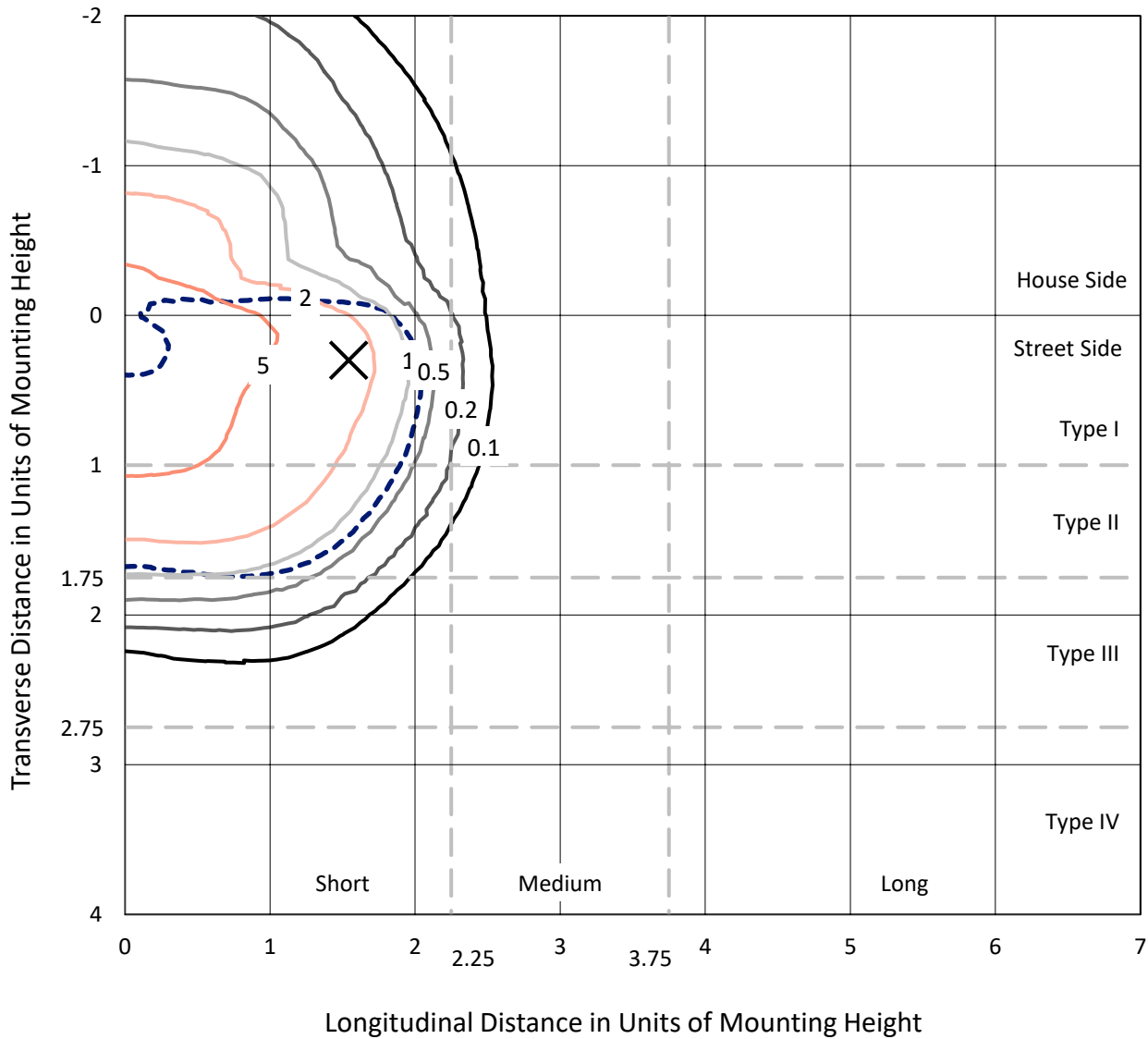
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

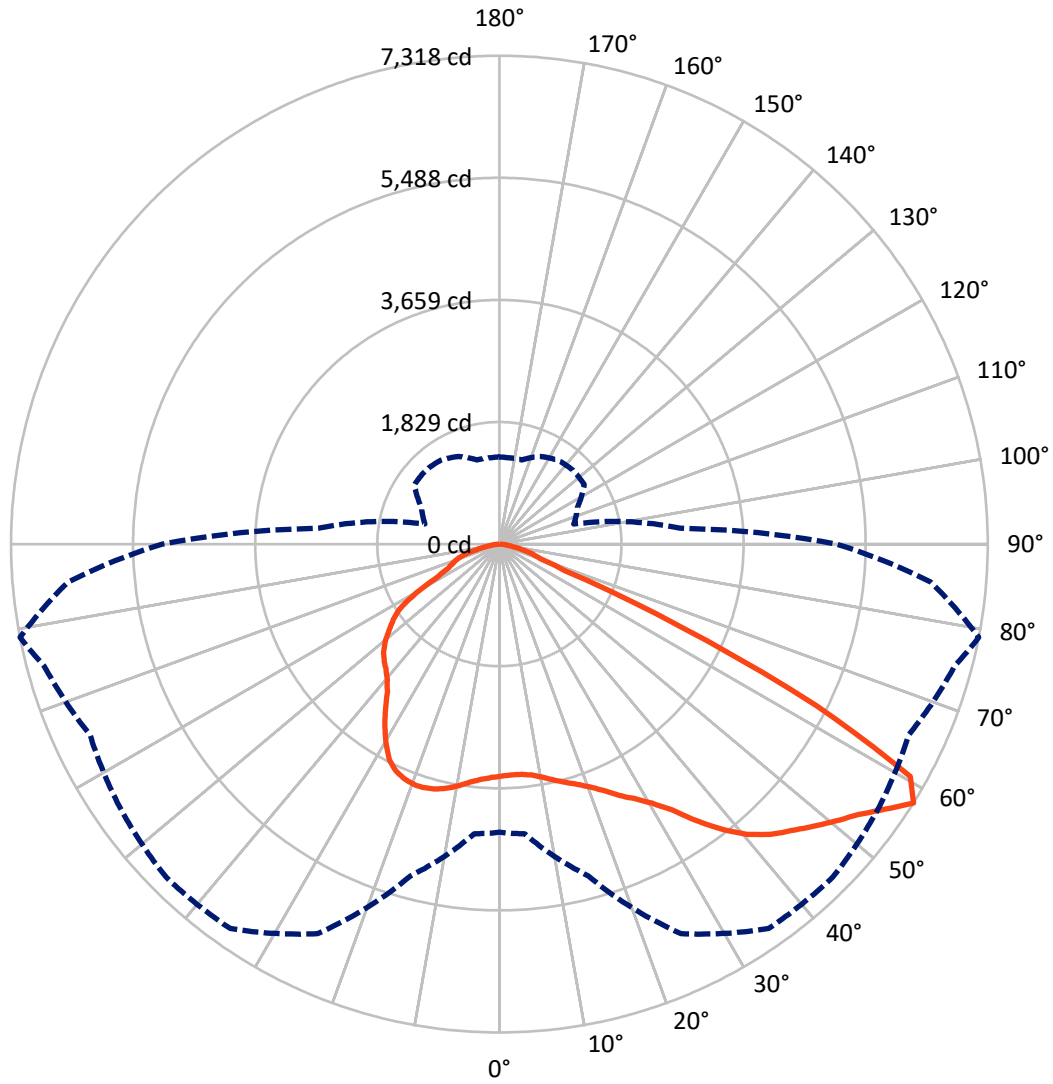
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.8 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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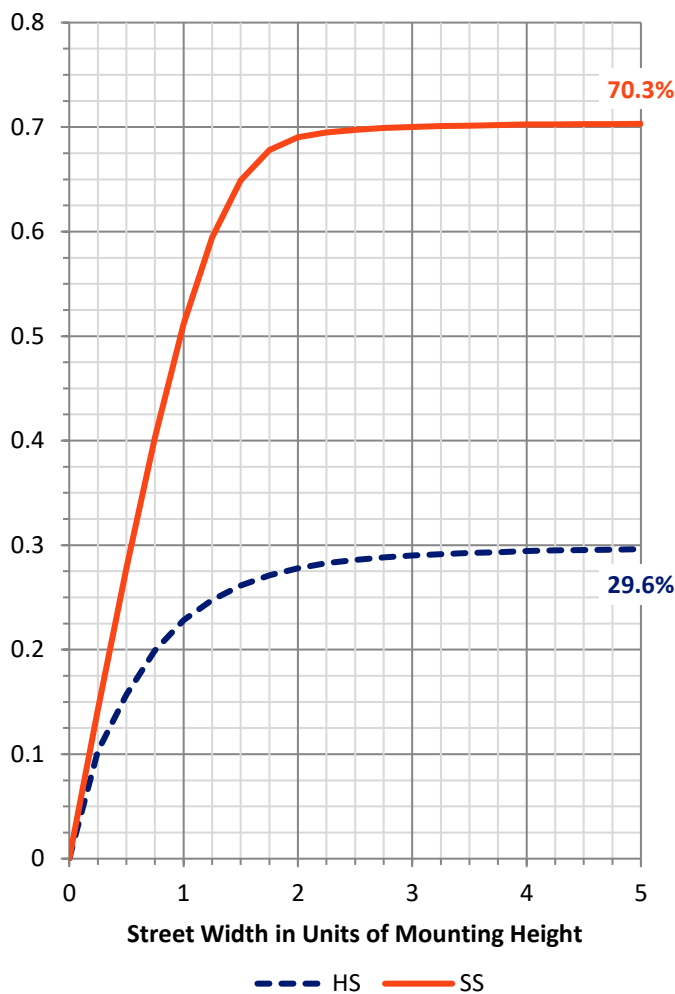
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4169.9	0.0	4169.9
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	9858.1	0.0	9858.1
	% Fixture	70.3	0.0	70.3
Total	Lumens	14028.0	0.0	14028.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.9	2.3
10°-20°	894.7	6.4
20°-30°	1516.6	10.8
30°-40°	2321.3	16.5
40°-50°	3095.2	22.1
50°-60°	3574.7	25.5
60°-70°	1857.6	13.2
70°-80°	394.9	2.8
80°-90°	51.1	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°	14028.0	100.0
0°-180°	14028.0	100.0

Coefficient of Utilization



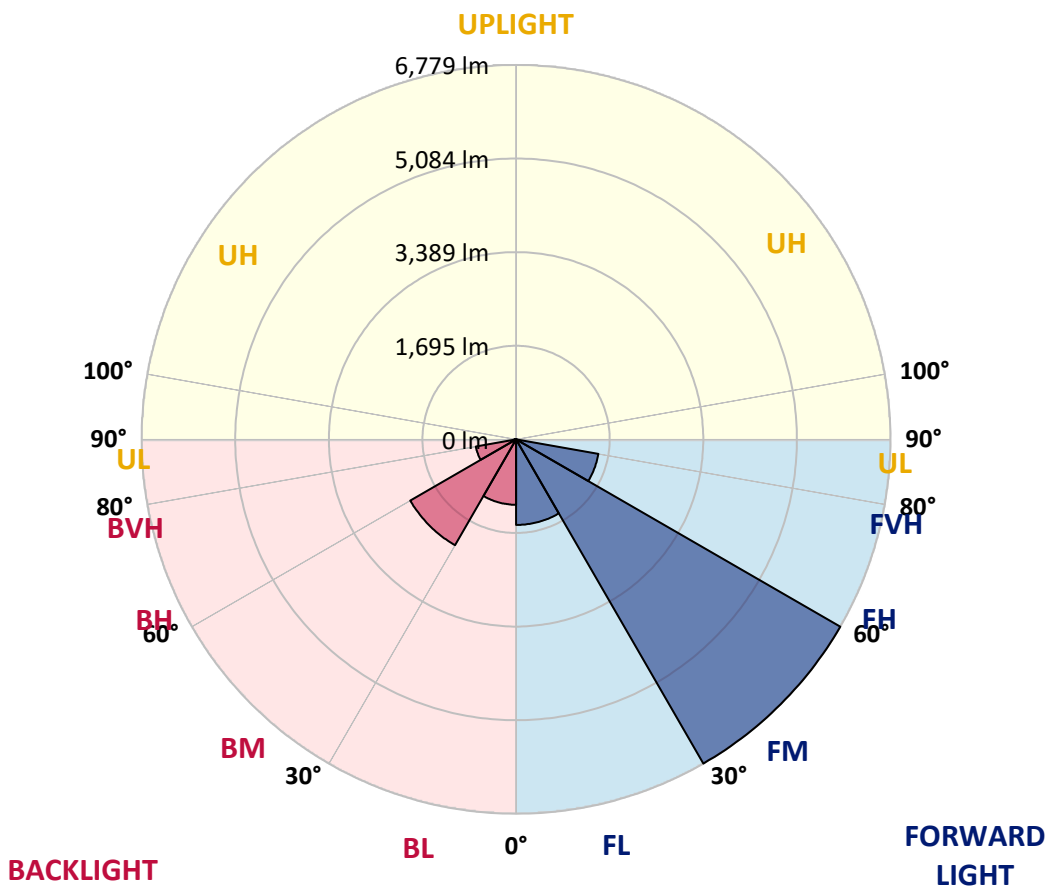
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1549.0	11.0			
FM (30°-60°)	6778.7	48.3			
FH (60°-80°)	1512.6	10.8			G1/1800
FVH (80°-90°)	17.8	0.1			G1/100
BL (0°-30°)	1184.2	8.4	B3/2500		
BM (30°-60°)	2212.5	15.8	B2/2500		
BH (60°-80°)	739.9	5.3	B2/1000		G2/1000
BVH (80°-90°)	33.3	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°	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5
2.5°	3318.2	3311.3	3313.6	3322.8	3357.2	3382.4	3408.8	3432.9	3455.8	3462.7	3468.4
5°	3200.0	3187.4	3190.9	3205.8	3245.9	3288.4	3335.4	3392.7	3447.8	3466.1	3490.2
7.5°	3116.3	3114.0	3119.8	3142.7	3185.1	3225.3	3286.1	3367.5	3462.7	3493.7	3536.1
10°	3005.1	3000.5	3023.4	3070.4	3140.4	3204.6	3276.9	3373.2	3506.3	3552.2	3617.5
12.5°	2916.7	2914.4	2938.5	3003.9	3093.4	3195.5	3295.2	3403.1	3564.8	3627.9	3708.2
15°	2968.4	2958.0	2959.2	3005.1	3085.3	3205.8	3341.1	3457.0	3623.3	3703.6	3806.8
17.5°	3118.6	3100.3	3086.5	3094.5	3140.4	3265.4	3411.1	3529.2	3690.9	3785.0	3911.2
20°	3326.2	3315.9	3278.0	3252.8	3263.1	3373.2	3521.2	3631.3	3779.3	3884.8	4020.1
22.5°	3604.9	3579.7	3528.1	3487.9	3457.0	3543.0	3679.5	3774.7	3902.0	4012.1	4153.2
25°	3950.2	3913.5	3832.0	3768.9	3702.4	3790.7	3912.3	3984.6	4070.6	4172.7	4306.9
27.5°	4302.3	4271.3	4180.7	4095.8	4013.2	4068.3	4212.8	4254.1	4244.9	4319.5	4434.2
30°	4677.3	4638.3	4552.3	4460.6	4353.9	4389.4	4519.1	4539.7	4442.2	4504.1	4582.1
32.5°	5073.0	5035.2	4960.6	4854.0	4733.5	4747.3	4782.9	4802.4	4709.5	4745.0	4804.7
35°	5475.6	5440.1	5364.4	5258.9	5170.5	5086.8	4997.3	5075.3	5021.4	5090.2	5085.7
37.5°	5843.8	5808.3	5761.2	5679.8	5528.4	5363.2	5156.8	5253.1	5336.8	5424.0	5409.1
40°	6092.7	6068.6	6080.1	6067.5	5872.5	5545.6	5234.8	5340.3	5568.5	5717.6	5709.6
42.5°	6307.2	6283.1	6349.6	6397.8	6168.4	5714.2	5272.6	5373.5	5716.5	5949.3	5937.9
45°	6402.4	6395.5	6505.6	6658.2	6439.1	5893.1	5370.1	5442.4	5828.9	6127.1	6083.5
47.5°	6288.8	6312.9	6529.7	6787.8	6663.9	6105.3	5569.7	5588.0	5975.7	6319.8	6197.1
50°	6062.9	6115.6	6408.1	6791.2	6827.9	6345.0	5846.1	5800.2	6173.0	6525.1	6256.7
52.5°	5733.7	5788.8	6265.9	6764.8	6922.0	6622.6	6214.3	6148.9	6421.9	6730.4	6267.0
55°	4977.8	5052.4	5940.2	6705.2	7013.7	6874.9	6629.5	6496.4	6743.0	7012.6	6369.1
57.5°	4318.3	4357.3	5146.4	6440.2	7032.1	7060.7	6925.4	6767.1	7061.9	7317.7	6483.8
60°	3169.1	3178.3	3888.2	5328.8	6468.9	6952.9	6901.3	6666.2	6910.5	7073.4	5958.5
62.5°	1790.4	1791.6	2358.2	3556.8	4832.2	5667.2	5699.3	5491.7	5286.4	5334.6	4147.4
65°	672.1	735.2	1077.0	1748.0	2786.0	3345.7	3478.8	3526.9	3185.1	2972.9	2224.0
67.5°	449.6	464.5	628.5	899.2	1239.9	1431.4	1601.2	1605.8	1174.5	1047.2	876.3
70°	342.9	357.9	494.3	643.4	628.5	580.4	627.4	610.2	630.8	648.0	666.4
72.5°	255.8	270.7	383.1	454.2	377.4	371.6	420.9	468.0	511.5	529.9	558.6
75°	169.8	181.2	258.1	243.2	208.7	246.6	307.4	354.4	379.6	401.4	423.2
77.5°	107.8	115.8	137.6	111.3	115.8	144.5	178.9	221.4	245.5	267.2	278.7
80°	49.3	48.2	47.0	52.8	65.4	84.9	107.8	133.0	151.4	160.6	167.5
82.5°	19.5	21.8	24.1	28.7	35.6	45.9	60.8	78.0	92.9	95.2	100.9
85°	8.0	9.2	10.3	12.6	16.1	20.6	25.2	35.6	44.7	48.2	51.6
87.5°	0.0	0.0	0.0	0.0	1.1	2.3	3.4	5.7	10.3	11.5	12.6
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°	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5
2.5°	3499.4	3484.5	3509.7	3526.9	3543.0	3525.8	3520.0	3505.1	3502.8	3502.8	3510.9
5°	3531.5	3521.2	3547.6	3557.9	3556.8	3518.9	3496.0	3466.1	3451.2	3451.2	3453.5
7.5°	3588.9	3583.1	3598.0	3582.0	3545.3	3468.4	3392.7	3329.7	3287.2	3265.4	3272.3
10°	3684.1	3677.2	3664.6	3604.9	3499.4	3340.0	3185.1	3070.4	3001.6	2962.6	2964.9
12.5°	3777.0	3765.5	3720.8	3588.9	3372.1	3118.6	2915.6	2787.1	2711.4	2665.6	2655.2
15°	3879.0	3849.2	3752.9	3506.3	3164.5	2847.9	2635.7	2497.0	2415.5	2388.0	2386.8
17.5°	3976.5	3923.8	3749.4	3359.5	2915.6	2564.6	2351.3	2265.3	2251.5	2264.1	2267.6
20°	4075.2	3990.3	3711.6	3156.5	2619.7	2282.5	2172.4	2207.9	2259.5	2293.9	2302.0
22.5°	4177.3	4045.4	3625.6	2894.9	2307.7	2092.1	2138.0	2215.9	2280.2	2326.1	2330.6
25°	4292.0	4097.0	3497.1	2574.9	2057.7	2039.3	2129.9	2212.5	2281.3	2334.1	2343.3
27.5°	4357.3	4098.1	3317.0	2245.8	1943.0	2018.7	2110.4	2188.4	2257.2	2314.6	2324.9
30°	4421.6	4067.2	3031.4	1978.5	1909.7	1994.6	2077.2	2149.4	2214.8	2271.0	2283.6
32.5°	4512.2	4038.5	2702.3	1824.8	1890.2	1971.6	2039.3	2103.5	2154.0	2179.2	2186.1
35°	4624.6	4001.8	2352.4	1758.3	1877.6	1953.3	2012.9	2047.3	1982.0	1968.2	1983.1
37.5°	4781.7	3967.4	2003.8	1729.6	1869.6	1946.4	1999.2	1910.9	1830.6	1798.4	1809.9
40°	4951.5	3947.9	1767.5	1706.7	1873.0	1953.3	1941.8	1811.1	1695.2	1627.5	1625.3
42.5°	5096.0	3918.0	1616.1	1691.8	1882.2	1979.7	1863.8	1722.7	1550.7	1510.6	1511.7
45°	5193.5	3842.3	1535.8	1675.7	1890.2	1985.4	1827.1	1601.2	1478.4	1453.2	1452.1
47.5°	5233.6	3704.7	1484.2	1650.5	1889.1	1938.4	1752.6	1550.7	1428.0	1421.1	1425.7
50°	5207.2	3478.8	1431.4	1601.2	1861.5	1889.1	1666.5	1506.0	1393.6	1431.4	1458.9
52.5°	5109.7	3186.3	1368.3	1533.5	1812.2	1832.9	1623.0	1478.4	1368.3	1418.8	1440.6
55°	5084.5	2948.9	1288.0	1445.2	1738.8	1733.1	1577.1	1464.7	1351.1	1331.6	1335.1
57.5°	5051.3	2717.2	1155.0	1286.9	1553.0	1562.2	1533.5	1448.6	1306.4	1300.7	1306.4
60°	4388.3	2082.9	1030.0	1110.3	1275.4	1324.7	1484.2	1418.8	1234.1	1210.1	1208.9
62.5°	2866.3	1261.7	916.4	968.0	1039.2	1096.5	1353.4	1332.8	1155.0	1140.1	1150.4
65°	1541.5	899.2	833.8	864.8	903.8	947.4	1121.7	1187.1	1043.7	991.0	992.1
67.5°	788.0	765.0	771.9	793.7	823.5	845.3	905.0	962.3	890.0	845.3	844.2
70°	674.4	692.8	703.1	715.7	735.2	731.8	737.5	747.8	742.1	720.3	719.1
72.5°	574.6	603.3	605.6	607.9	614.8	598.7	588.4	571.2	572.3	575.8	576.9
75°	437.0	464.5	471.4	468.0	474.8	454.2	440.4	423.2	402.6	399.1	401.4
77.5°	284.4	306.2	316.6	314.3	317.7	301.7	294.8	276.4	252.3	243.2	243.2
80°	172.0	184.7	192.7	195.0	198.4	187.0	175.5	159.4	149.1	138.8	138.8
82.5°	104.4	112.4	118.1	118.1	121.6	109.0	99.8	88.3	83.7	74.6	74.6
85°	52.8	58.5	60.8	59.6	57.3	47.0	43.6	37.8	35.6	31.0	31.0
87.5°	12.6	16.1	16.1	11.5	11.5	5.7	3.4	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)