

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: P636906

Luminaire Tested: GWS-SA4B-760-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636906
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-SA4B-760-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12803 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

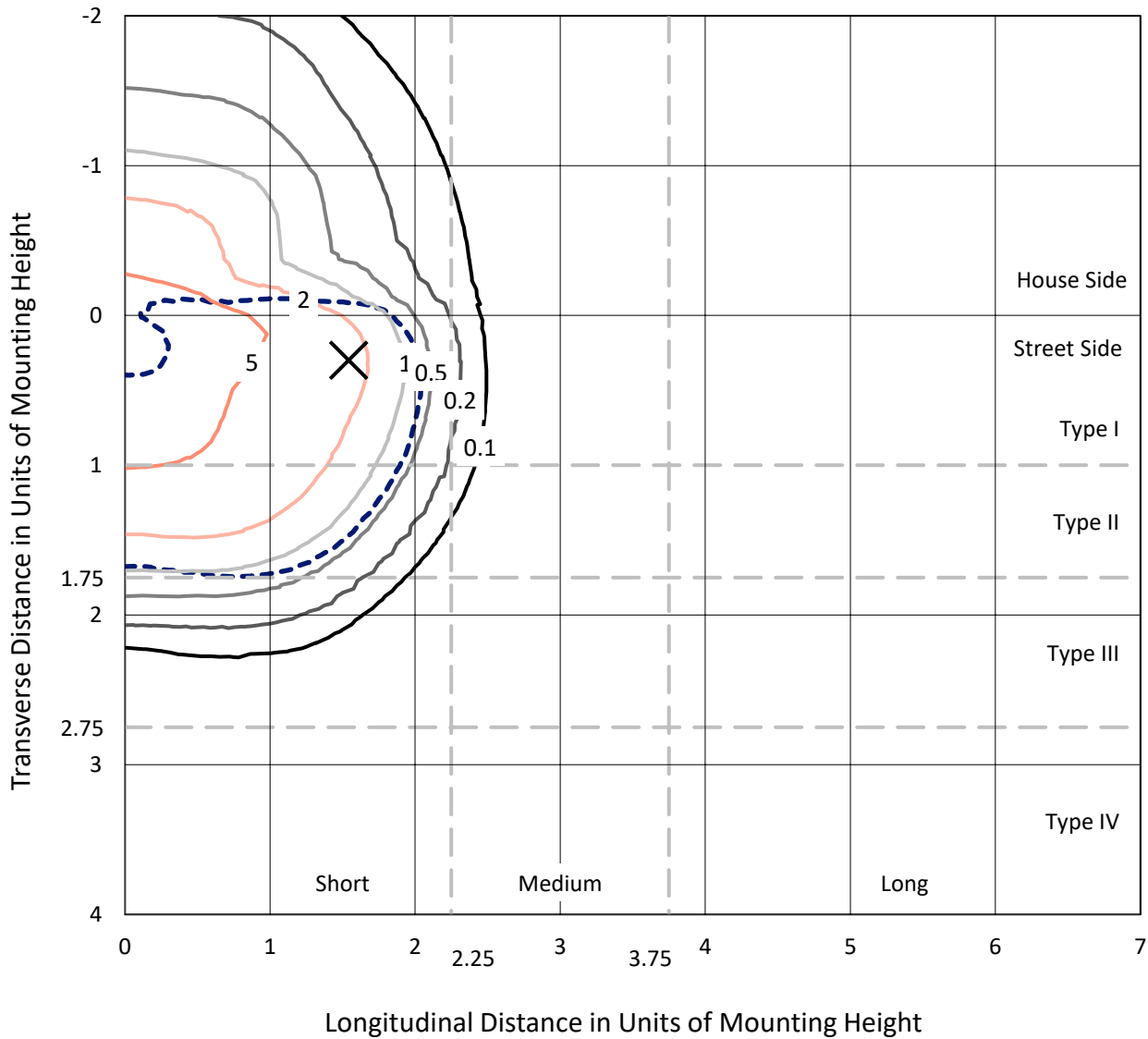
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

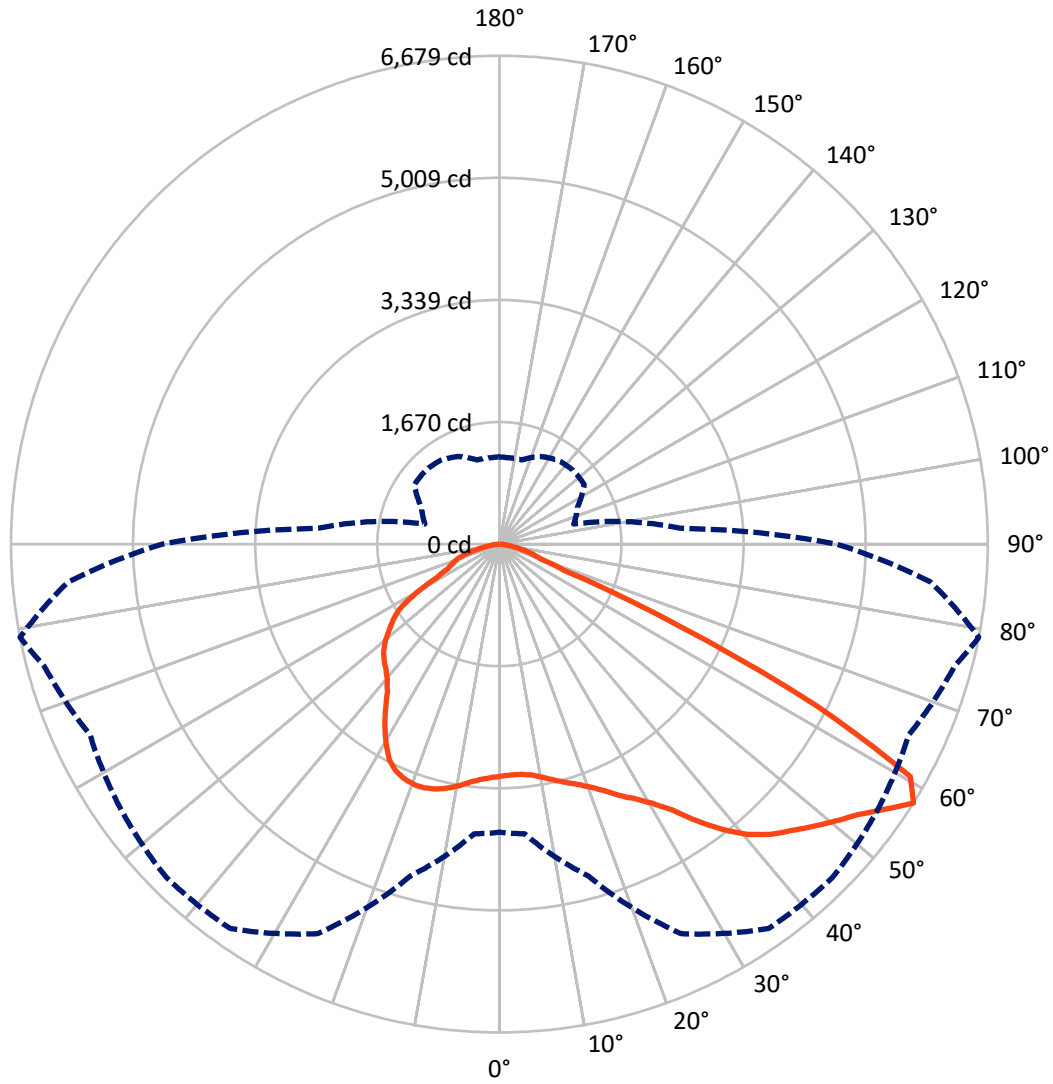
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8 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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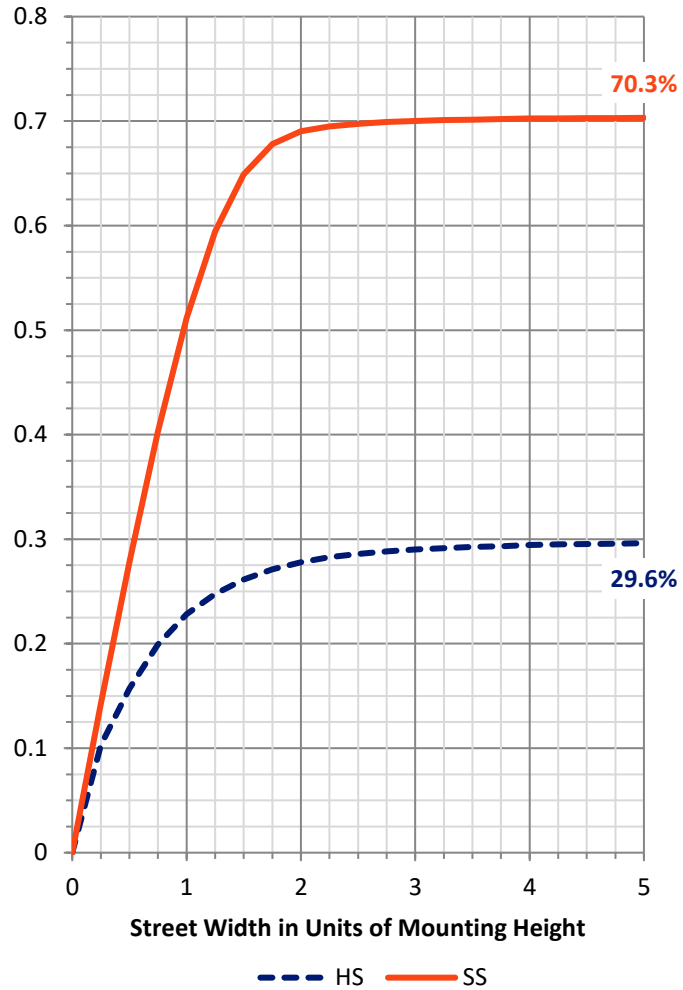
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3805.7	0.0	3805.7
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	8997.3	0.0	8997.3
	% Fixture	70.3	0.0	70.3
Total	Lumens	12803.0	0.0	12803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.8	2.3
10°-20°	816.6	6.4
20°-30°	1384.1	10.8
30°-40°	2118.6	16.5
40°-50°	2824.9	22.1
50°-60°	3262.6	25.5
60°-70°	1695.3	13.2
70°-80°	360.4	2.8
80°-90°	46.7	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°	12803.0	100.0
0°-180°	12803.0	100.0

Coefficient of Utilization



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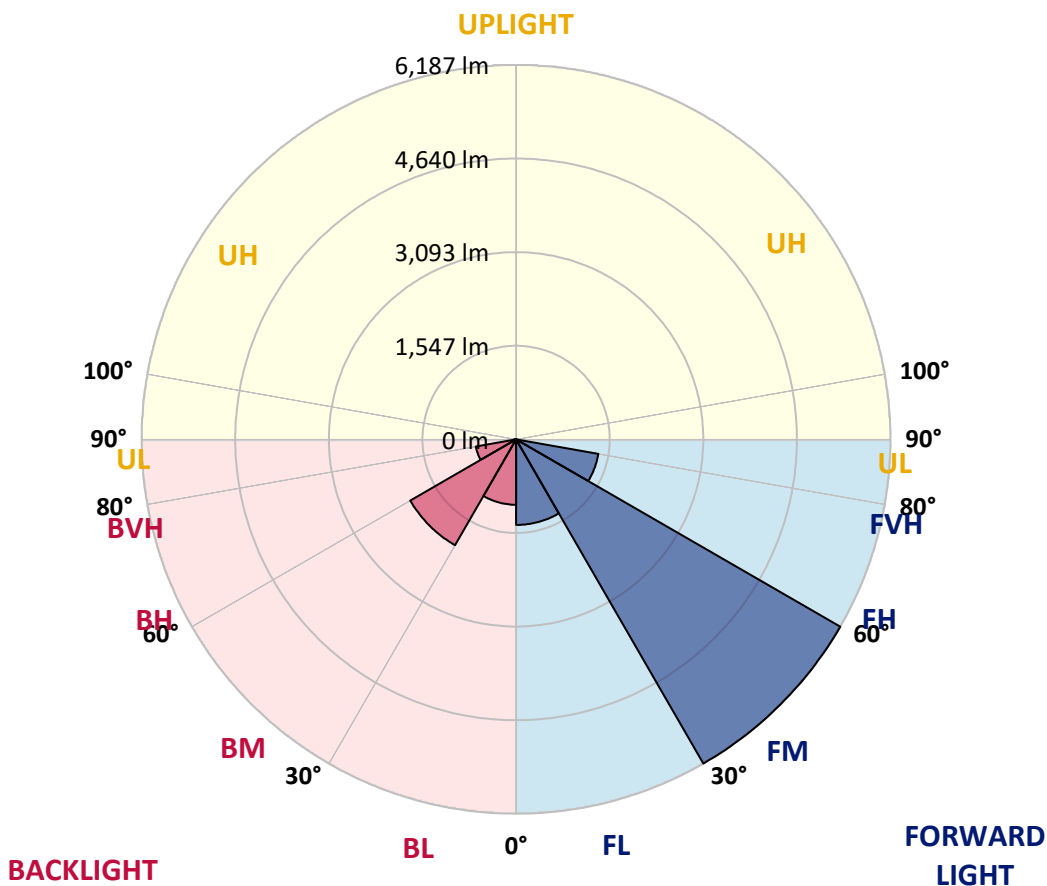
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.7	11.0			
FM (30°-60°)	6186.8	48.3			
FH (60°-80°)	1380.5	10.8			G1/1800
FVH (80°-90°)	16.3	0.1			G1/100
BL (0°-30°)	1080.8	8.4	B3/2500		
BM (30°-60°)	2019.3	15.8	B2/2500		
BH (60°-80°)	675.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	30.4	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°	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9
2.5°	3028.4	3022.1	3024.2	3032.6	3064.0	3087.0	3111.1	3133.1	3154.0	3160.3	3165.6
5°	2920.6	2909.1	2912.2	2925.8	2962.5	3001.2	3044.1	3096.5	3146.7	3163.5	3185.4
7.5°	2844.2	2842.1	2847.3	2868.3	2907.0	2943.6	2999.1	3073.4	3160.3	3188.6	3227.3
10°	2742.6	2738.5	2759.4	2802.3	2866.2	2924.8	2990.7	3078.7	3200.1	3242.0	3301.6
12.5°	2662.0	2659.9	2681.9	2741.6	2823.2	2916.4	3007.5	3105.9	3253.5	3311.1	3384.3
15°	2709.1	2699.7	2700.8	2742.6	2815.9	2925.8	3049.4	3155.1	3306.9	3380.1	3474.4
17.5°	2846.3	2829.5	2817.0	2824.3	2866.2	2980.3	3113.2	3221.0	3368.6	3454.5	3569.6
20°	3035.7	3026.3	2991.8	2968.8	2978.2	3078.7	3213.7	3314.2	3449.2	3545.5	3669.1
22.5°	3290.1	3267.1	3220.0	3183.3	3155.1	3233.6	3358.2	3445.0	3561.2	3661.7	3790.5
25°	3605.2	3571.7	3497.4	3439.8	3379.1	3459.7	3570.7	3636.6	3715.1	3808.3	3930.8
27.5°	3926.6	3898.3	3815.6	3738.2	3662.8	3713.0	3844.9	3882.6	3874.2	3942.3	4047.0
30°	4268.9	4233.3	4154.8	4071.0	3973.7	4006.1	4124.4	4143.3	4054.3	4110.8	4182.0
32.5°	4630.0	4595.5	4527.5	4430.1	4320.2	4332.7	4365.2	4383.0	4298.2	4330.7	4385.1
35°	4997.5	4965.0	4895.9	4799.6	4719.0	4642.6	4560.9	4632.1	4582.9	4645.7	4641.6
37.5°	5333.5	5301.0	5258.1	5183.8	5045.6	4894.9	4706.5	4794.4	4870.8	4950.4	4936.8
40°	5560.7	5538.7	5549.1	5537.6	5359.7	5061.3	4777.6	4873.9	5082.3	5218.3	5211.0
42.5°	5756.4	5734.4	5795.1	5839.1	5629.7	5215.2	4812.2	4904.3	5217.3	5429.8	5419.3
45°	5843.3	5837.0	5937.5	6076.7	5876.8	5378.5	4901.2	4967.1	5319.9	5592.1	5552.3
47.5°	5739.7	5761.6	5959.5	6195.0	6082.0	5572.2	5083.3	5100.1	5453.9	5767.9	5655.9
50°	5533.4	5581.6	5848.5	6198.2	6231.7	5790.9	5335.6	5293.7	5633.9	5955.3	5710.3
52.5°	5233.0	5283.2	5718.7	6174.1	6317.5	6044.3	5671.6	5611.9	5861.1	6142.7	5719.8
55°	4543.2	4611.2	5421.4	6119.6	6401.2	6274.6	6050.6	5929.1	6154.2	6400.2	5812.9
57.5°	3941.2	3976.8	4697.0	5877.8	6418.0	6444.2	6320.6	6176.2	6445.2	6678.6	5917.6
60°	2892.3	2900.7	3548.7	4863.5	5904.0	6345.8	6298.7	6084.1	6307.0	6455.7	5438.2
62.5°	1634.1	1635.1	2152.2	3246.2	4410.2	5172.3	5201.6	5012.1	4824.7	4868.7	3785.3
65°	613.4	671.0	983.0	1595.3	2542.7	3053.5	3175.0	3218.9	2907.0	2713.3	2029.8
67.5°	410.3	424.0	573.7	820.7	1131.6	1306.4	1461.3	1465.5	1071.9	955.7	799.8
70°	313.0	326.6	451.2	587.3	573.7	529.7	572.6	556.9	575.7	591.4	608.2
72.5°	233.4	247.0	349.6	414.5	344.4	339.2	384.2	427.1	466.9	483.6	509.8
75°	154.9	165.4	235.5	221.9	190.5	225.1	280.5	323.5	346.5	366.4	386.3
77.5°	98.4	105.7	125.6	101.5	105.7	131.9	163.3	202.0	224.0	243.9	254.4
80°	45.0	44.0	42.9	48.2	59.7	77.5	98.4	121.4	138.2	146.6	152.8
82.5°	17.8	19.9	22.0	26.2	32.5	41.9	55.5	71.2	84.8	86.9	92.1
85°	7.3	8.4	9.4	11.5	14.7	18.8	23.0	32.5	40.8	44.0	47.1
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	3.1	5.2	9.4	10.5	11.5
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°	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9
2.5°	3193.8	3180.2	3203.2	3218.9	3233.6	3217.9	3212.7	3199.0	3197.0	3197.0	3204.3
5°	3223.1	3213.7	3237.8	3247.2	3246.2	3211.6	3190.7	3163.5	3149.8	3149.8	3151.9
7.5°	3275.5	3270.2	3283.8	3269.2	3235.7	3165.6	3096.5	3038.9	3000.2	2980.3	2986.5
10°	3362.4	3356.1	3344.6	3290.1	3193.8	3048.3	2907.0	2802.3	2739.5	2703.9	2706.0
12.5°	3447.1	3436.7	3395.8	3275.5	3077.6	2846.3	2661.0	2543.7	2474.7	2432.8	2423.4
15°	3540.3	3513.1	3425.2	3200.1	2888.1	2599.2	2405.6	2278.9	2204.6	2179.5	2178.4
17.5°	3629.3	3581.1	3422.0	3066.1	2661.0	2340.7	2146.0	2067.4	2054.9	2066.4	2069.5
20°	3719.3	3641.9	3387.5	2880.8	2390.9	2083.2	1982.7	2015.1	2062.2	2093.6	2100.9
22.5°	3812.5	3692.1	3309.0	2642.1	2106.2	1909.4	1951.3	2022.4	2081.1	2122.9	2127.1
25°	3917.2	3739.2	3191.7	2350.1	1878.0	1861.2	1943.9	2019.3	2082.1	2130.3	2138.6
27.5°	3976.8	3740.3	3027.4	2049.7	1773.3	1842.4	1926.1	1997.3	2060.1	2112.5	2121.9
30°	4035.5	3712.0	2766.7	1805.7	1742.9	1820.4	1895.8	1961.7	2021.4	2072.7	2084.2
32.5°	4118.1	3685.8	2466.3	1665.5	1725.1	1799.5	1861.2	1919.8	1965.9	1988.9	1995.2
35°	4220.7	3652.3	2147.0	1604.8	1713.6	1782.7	1837.2	1868.6	1808.9	1796.3	1809.9
37.5°	4364.1	3620.9	1828.8	1578.6	1706.3	1776.4	1824.6	1744.0	1670.7	1641.4	1651.9
40°	4519.1	3603.1	1613.1	1557.7	1709.4	1782.7	1772.2	1652.9	1547.2	1485.4	1483.3
42.5°	4651.0	3575.9	1475.0	1544.0	1717.8	1806.8	1701.1	1572.3	1415.3	1378.6	1379.7
45°	4740.0	3506.8	1401.7	1529.4	1725.1	1812.0	1667.6	1461.3	1349.3	1326.3	1325.3
47.5°	4776.6	3381.2	1354.6	1506.4	1724.1	1769.1	1599.5	1415.3	1303.3	1297.0	1301.2
50°	4752.5	3175.0	1306.4	1461.3	1699.0	1724.1	1521.0	1374.5	1271.9	1306.4	1331.5
52.5°	4663.5	2908.0	1248.8	1399.6	1654.0	1672.8	1481.2	1349.3	1248.8	1294.9	1314.8
55°	4640.5	2691.3	1175.6	1319.0	1587.0	1581.7	1439.4	1336.8	1233.1	1215.3	1218.5
57.5°	4610.1	2479.9	1054.1	1174.5	1417.4	1425.8	1399.6	1322.1	1192.3	1187.1	1192.3
60°	4005.1	1901.0	940.0	1013.3	1164.1	1209.1	1354.6	1294.9	1126.4	1104.4	1103.3
62.5°	2616.0	1151.5	836.4	883.5	948.4	1000.7	1235.2	1216.4	1054.1	1040.5	1049.9
65°	1406.9	820.7	761.0	789.3	824.9	864.7	1023.8	1083.4	952.6	904.4	905.5
67.5°	719.2	698.2	704.5	724.4	751.6	771.5	825.9	878.3	812.3	771.5	770.5
70°	615.5	632.3	641.7	653.2	671.0	667.9	673.1	682.5	677.3	657.4	656.3
72.5°	524.5	550.6	552.7	554.8	561.1	546.4	537.0	521.3	522.4	525.5	526.5
75°	398.8	424.0	430.2	427.1	433.4	414.5	402.0	386.3	367.4	364.3	366.4
77.5°	259.6	279.5	288.9	286.8	290.0	275.3	269.0	252.3	230.3	221.9	221.9
80°	157.0	168.5	175.9	178.0	181.1	170.6	160.2	145.5	136.1	126.7	126.7
82.5°	95.3	102.6	107.8	107.8	111.0	99.4	91.1	80.6	76.4	68.0	68.0
85°	48.2	53.4	55.5	54.4	52.3	42.9	39.8	34.5	32.5	28.3	28.3
87.5°	11.5	14.7	14.7	10.5	10.5	5.2	3.1	1.0	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)