

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: P633826

Luminaire Tested: GWS-SA2F-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633826
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14222.9 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

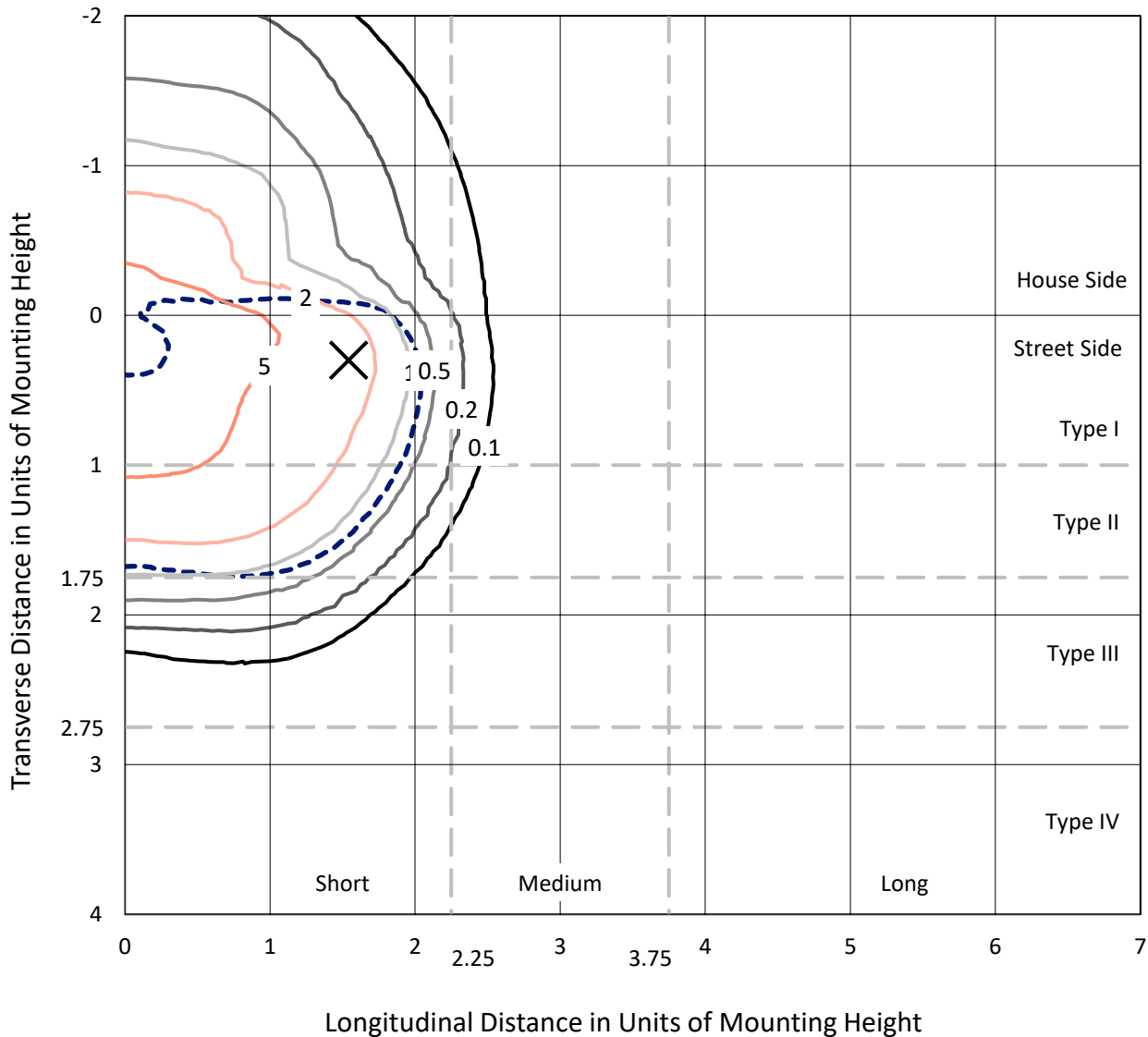
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

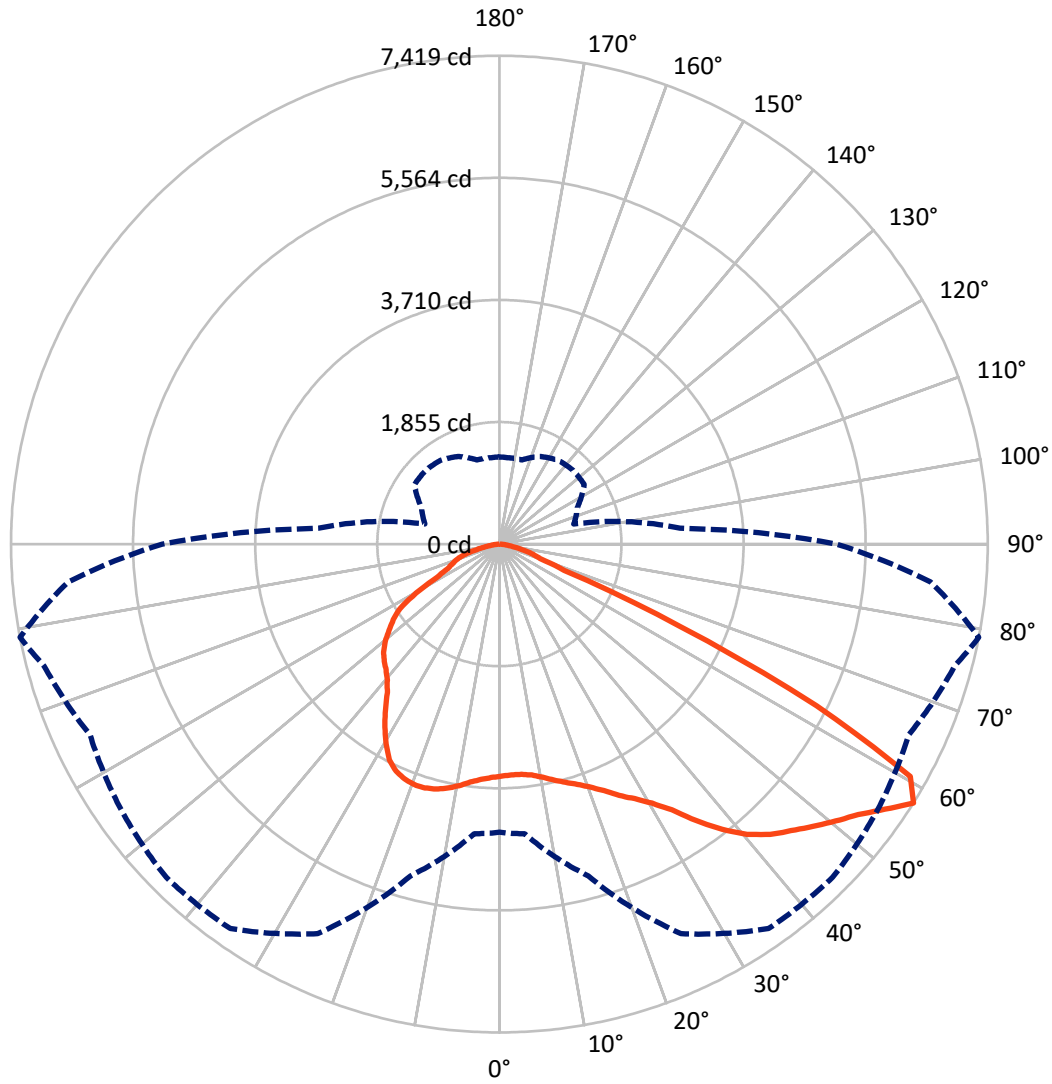
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.9 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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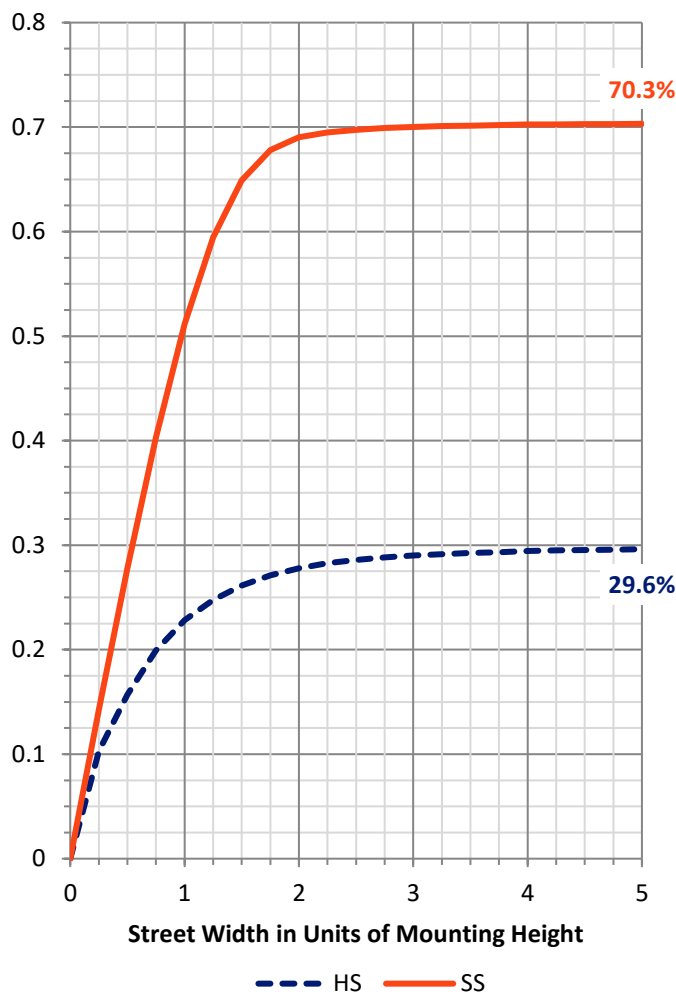
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4227.8	0.0	4227.8
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	9995.1	0.0	9995.1
	% Fixture	70.3	0.0	70.3
Total	Lumens	14222.9	0.0	14222.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.4	2.3
10°-20°	907.1	6.4
20°-30°	1537.6	10.8
30°-40°	2353.5	16.5
40°-50°	3138.2	22.1
50°-60°	3624.4	25.5
60°-70°	1883.4	13.2
70°-80°	400.4	2.8
80°-90°	51.9	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°	14222.9	100.0
0°-180°	14222.9	100.0

Coefficient of Utilization



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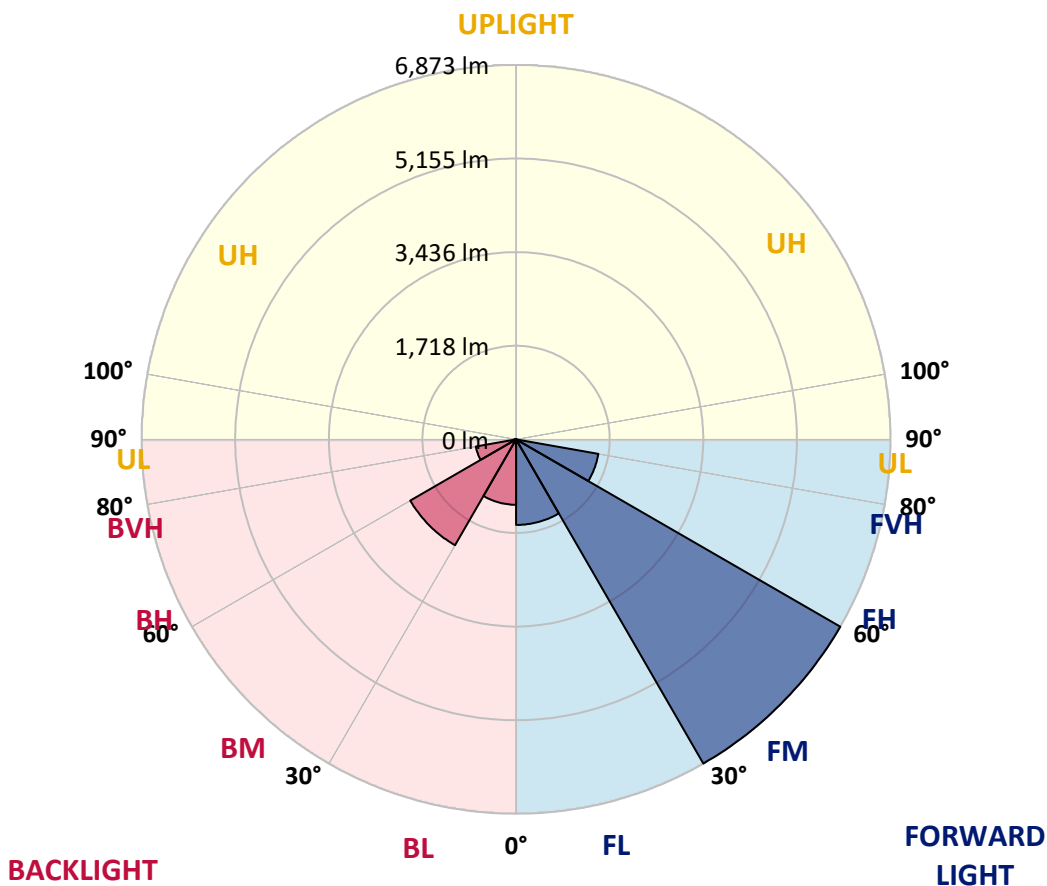
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1570.5	11.0			
FM (30°-60°)	6872.9	48.3			
FH (60°-80°)	1533.6	10.8			G1/1800
FVH (80°-90°)	18.1	0.1			G1/100
BL (0°-30°)	1200.7	8.4	B3/2500		
BM (30°-60°)	2243.2	15.8	B2/2500		
BH (60°-80°)	750.1	5.3	B2/1000		G2/1000
BVH (80°-90°)	33.8	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°	3524.8	3524.8	3524.8	3524.8	3524.8	3524.8	3524.8	3524.8	3524.8	3524.8	3524.8
2.5°	3364.3	3357.3	3359.6	3368.9	3403.8	3429.4	3456.2	3480.6	3503.8	3510.8	3516.6
5°	3244.5	3231.7	3235.2	3250.3	3291.0	3334.0	3381.7	3439.9	3495.7	3514.3	3538.7
7.5°	3159.6	3157.3	3163.1	3186.4	3229.4	3270.1	3331.7	3414.3	3510.8	3542.2	3585.2
10°	3046.8	3042.2	3065.4	3113.1	3184.0	3249.2	3322.4	3420.1	3555.0	3601.5	3667.8
12.5°	2957.3	2954.9	2979.4	3045.6	3136.4	3239.9	3341.0	3450.3	3614.3	3678.3	3759.7
15°	3009.6	2999.1	3000.3	3046.8	3128.2	3250.3	3387.5	3505.0	3673.6	3755.0	3859.7
17.5°	3161.9	3143.3	3129.4	3137.5	3184.0	3310.8	3458.5	3578.3	3742.2	3837.6	3965.5
20°	3372.4	3362.0	3323.6	3298.0	3308.5	3420.1	3570.1	3681.8	3831.8	3938.8	4076.0
22.5°	3655.0	3629.4	3577.1	3536.4	3505.0	3592.2	3730.6	3827.1	3956.2	4067.8	4210.9
25°	4005.0	3967.8	3885.3	3821.3	3753.9	3843.4	3966.7	4039.9	4127.1	4230.6	4366.7
27.5°	4362.1	4330.7	4238.8	4152.7	4069.0	4124.8	4271.3	4313.2	4303.9	4379.5	4495.8
30°	4742.3	4702.8	4615.6	4522.5	4414.4	4450.4	4581.8	4602.8	4503.9	4566.7	4645.8
32.5°	5143.5	5105.2	5029.6	4921.4	4799.3	4813.3	4849.3	4869.1	4774.9	4810.9	4871.4
35°	5551.7	5515.7	5438.9	5331.9	5242.4	5157.5	5066.8	5145.9	5091.2	5161.0	5156.3
37.5°	5925.0	5888.9	5841.3	5758.7	5605.2	5437.7	5228.4	5326.1	5411.0	5499.4	5484.3
40°	6177.3	6152.9	6164.6	6151.8	5954.1	5622.6	5307.5	5414.5	5645.9	5797.1	5788.9
42.5°	6394.8	6370.4	6437.8	6486.7	6254.1	5793.6	5345.9	5448.2	5795.9	6032.0	6020.4
45°	6491.3	6484.4	6596.0	6750.7	6528.5	5975.0	5444.7	5518.0	5909.9	6212.2	6168.0
47.5°	6376.2	6400.6	6620.4	6882.1	6756.5	6190.1	5647.1	5665.7	6058.7	6407.6	6283.2
50°	6147.1	6200.6	6497.1	6885.6	6922.8	6433.2	5927.3	5880.8	6258.8	6615.8	6343.6
52.5°	5813.4	5869.2	6352.9	6858.8	7018.1	6714.6	6300.6	6234.3	6511.1	6823.9	6354.1
55°	5047.0	5122.6	6022.7	6798.3	7111.2	6970.4	6721.6	6586.7	6836.7	7110.0	6457.6
57.5°	4378.3	4417.9	5218.0	6529.7	7129.8	7158.8	7021.6	6861.1	7160.0	7419.3	6573.9
60°	3213.1	3222.4	3942.2	5402.9	6558.8	7049.5	6997.2	6758.8	7006.5	7171.6	6041.3
62.5°	1815.3	1816.5	2390.9	3606.2	4899.3	5745.9	5778.5	5568.0	5359.8	5408.7	4205.1
65°	681.5	745.4	1092.0	1772.3	2824.7	3392.2	3527.1	3575.9	3229.4	3014.2	2254.9
67.5°	455.9	471.0	637.3	911.7	1257.1	1451.3	1623.4	1628.1	1190.8	1061.7	888.5
70°	347.7	362.8	501.2	652.4	637.3	588.4	636.1	618.7	639.6	657.0	675.6
72.5°	259.3	274.4	388.4	460.5	382.6	376.8	426.8	474.5	518.7	537.3	566.3
75°	172.1	183.7	261.7	246.5	211.6	250.0	311.7	359.3	384.9	407.0	429.1
77.5°	109.3	117.5	139.5	112.8	117.5	146.5	181.4	224.4	248.9	271.0	282.6
80°	50.0	48.8	47.7	53.5	66.3	86.1	109.3	134.9	153.5	162.8	169.8
82.5°	19.8	22.1	24.4	29.1	36.1	46.5	61.6	79.1	94.2	96.5	102.3
85°	8.1	9.3	10.5	12.8	16.3	20.9	25.6	36.1	45.4	48.8	52.3
87.5°	0.0	0.0	0.0	0.0	1.2	2.3	3.5	5.8	10.5	11.6	12.8
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°	3524.8	3524.8	3524.8	3524.8	3524.8	3524.8	3524.8	3524.8	3524.8	3524.8	3524.8
2.5°	3548.0	3532.9	3558.5	3575.9	3592.2	3574.8	3569.0	3553.8	3551.5	3551.5	3559.7
5°	3580.6	3570.1	3596.9	3607.3	3606.2	3567.8	3544.5	3514.3	3499.2	3499.2	3501.5
7.5°	3638.7	3632.9	3648.0	3631.8	3594.5	3516.6	3439.9	3375.9	3332.9	3310.8	3317.8
10°	3735.2	3728.3	3715.5	3655.0	3548.0	3386.4	3229.4	3113.1	3043.3	3003.8	3006.1
12.5°	3829.4	3817.8	3772.5	3638.7	3418.9	3161.9	2956.1	2825.9	2749.1	2702.6	2692.1
15°	3932.9	3902.7	3805.0	3555.0	3208.5	2887.5	2672.4	2531.6	2449.1	2421.2	2420.0
17.5°	4031.8	3978.3	3801.5	3406.1	2956.1	2600.3	2384.0	2296.7	2282.8	2295.6	2299.1
20°	4131.8	4045.7	3763.2	3200.3	2656.1	2314.2	2202.5	2238.6	2290.9	2325.8	2333.9
22.5°	4235.3	4101.6	3675.9	2935.2	2339.8	2121.1	2167.7	2246.7	2311.9	2358.4	2363.0
25°	4351.6	4153.9	3545.7	2610.7	2086.3	2067.6	2159.5	2243.2	2313.0	2366.5	2375.8
27.5°	4417.9	4155.1	3363.1	2277.0	1970.0	2046.7	2139.7	2218.8	2288.6	2346.7	2357.2
30°	4483.0	4123.7	3073.6	2006.0	1936.2	2022.3	2106.0	2179.3	2245.6	2302.6	2315.3
32.5°	4574.9	4094.6	2739.8	1850.2	1916.5	1999.0	2067.6	2132.8	2183.9	2209.5	2216.5
35°	4688.8	4057.4	2385.1	1782.7	1903.7	1980.4	2040.9	2075.8	2009.5	1995.5	2010.7
37.5°	4848.1	4022.5	2031.6	1753.7	1895.5	1973.4	2026.9	1937.4	1856.0	1823.4	1835.1
40°	5020.3	4002.7	1792.0	1730.4	1899.0	1980.4	1968.8	1836.2	1718.8	1650.2	1647.8
42.5°	5166.8	3972.5	1638.5	1715.3	1908.3	2007.2	1889.7	1746.7	1572.2	1531.5	1532.7
45°	5265.6	3895.7	1557.1	1699.0	1916.5	2013.0	1852.5	1623.4	1499.0	1473.4	1472.2
47.5°	5306.3	3756.2	1504.8	1673.4	1915.3	1965.3	1776.9	1572.2	1447.8	1440.8	1445.5
50°	5279.6	3527.1	1451.3	1623.4	1887.4	1915.3	1689.7	1526.9	1412.9	1451.3	1479.2
52.5°	5180.7	3230.5	1387.3	1554.8	1837.4	1858.3	1645.5	1499.0	1387.3	1438.5	1460.6
55°	5155.2	2989.8	1305.9	1465.3	1763.0	1757.1	1599.0	1485.0	1369.9	1350.1	1353.6
57.5°	5121.4	2754.9	1171.0	1304.8	1574.6	1583.9	1554.8	1468.7	1324.5	1318.7	1324.5
60°	4449.3	2111.8	1044.3	1125.7	1293.1	1343.2	1504.8	1438.5	1251.3	1226.9	1225.7
62.5°	2906.1	1279.2	929.2	981.5	1053.6	1111.7	1372.2	1351.3	1171.0	1155.9	1166.4
65°	1562.9	911.7	845.4	876.8	916.4	960.6	1137.3	1203.6	1058.2	1004.7	1005.9
67.5°	798.9	775.7	782.6	804.7	835.0	857.1	917.5	975.7	902.4	857.1	855.9
70°	683.8	702.4	712.9	725.7	745.4	741.9	747.7	758.2	752.4	730.3	729.1
72.5°	582.6	611.7	614.0	616.3	623.3	607.0	596.6	579.1	580.3	583.8	584.9
75°	443.1	471.0	478.0	474.5	481.4	460.5	446.6	429.1	408.2	404.7	407.0
77.5°	288.4	310.5	321.0	318.6	322.1	305.8	298.9	280.3	255.8	246.5	246.5
80°	174.4	187.2	195.4	197.7	201.2	189.6	177.9	161.6	151.2	140.7	140.7
82.5°	105.8	114.0	119.8	119.8	123.3	110.5	101.2	89.5	84.9	75.6	75.6
85°	53.5	59.3	61.6	60.5	58.1	47.7	44.2	38.4	36.1	31.4	31.4
87.5°	12.8	16.3	16.3	11.6	11.6	5.8	3.5	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)