

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: P637895

Luminaire Tested: GWS-SA4D-760-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-760-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15495.9 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

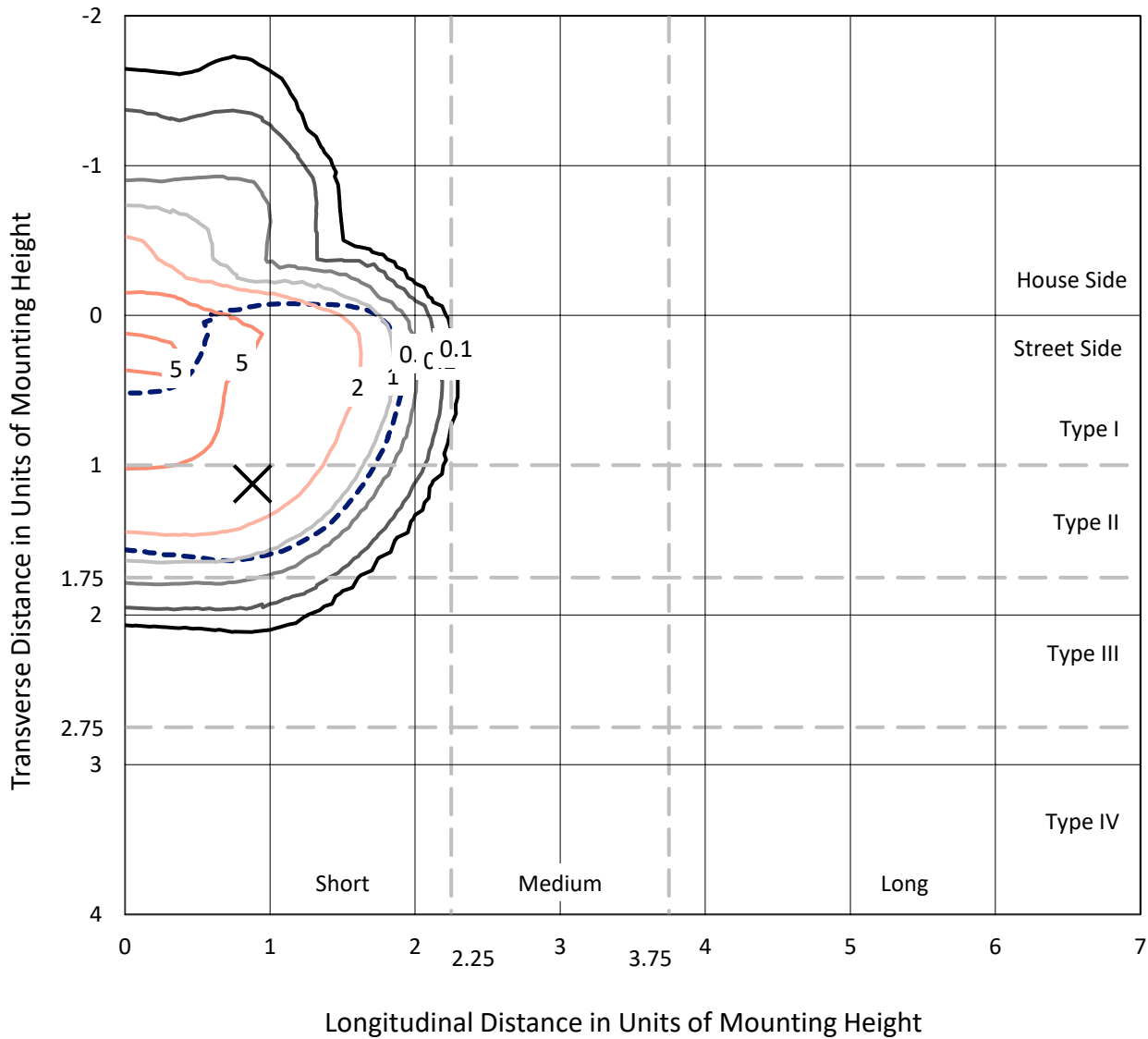
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

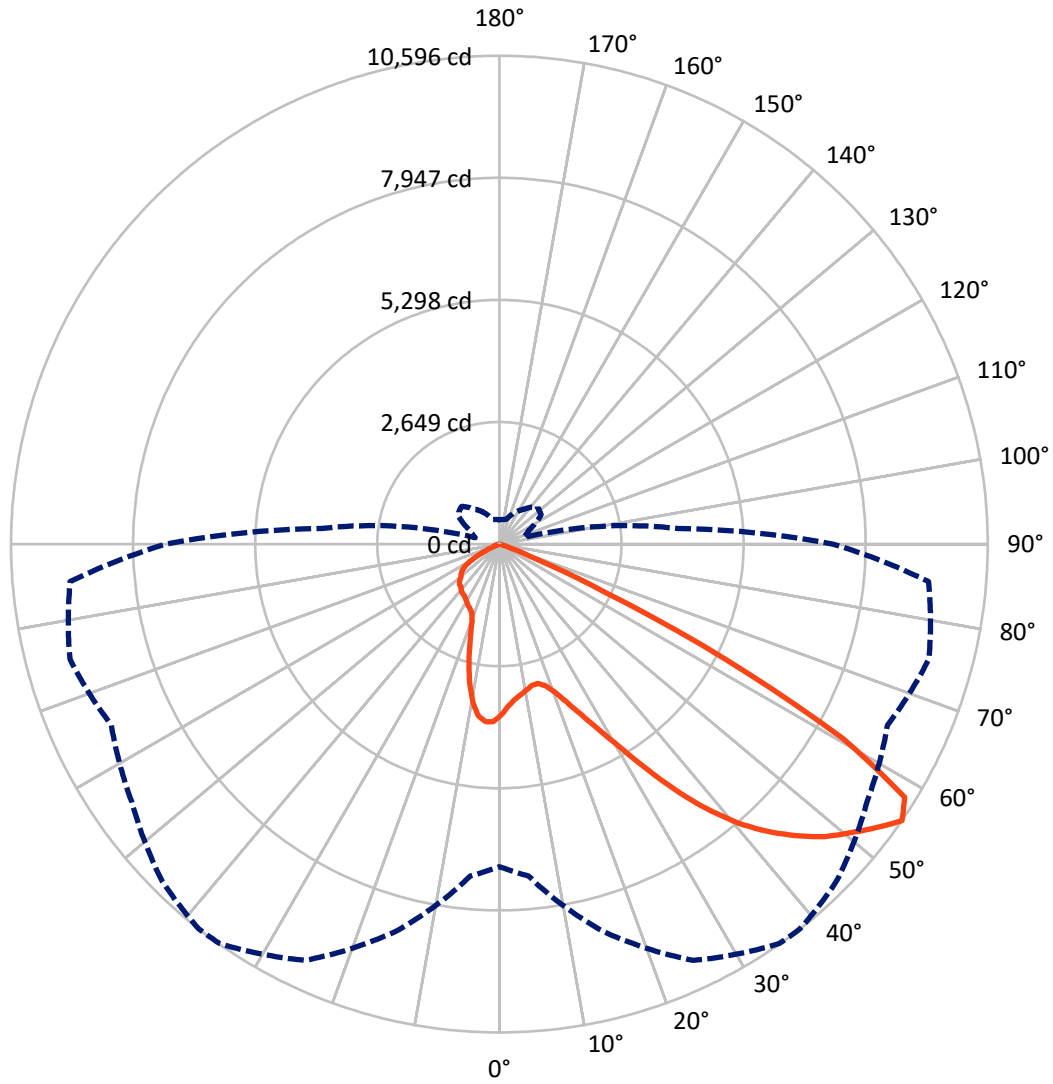
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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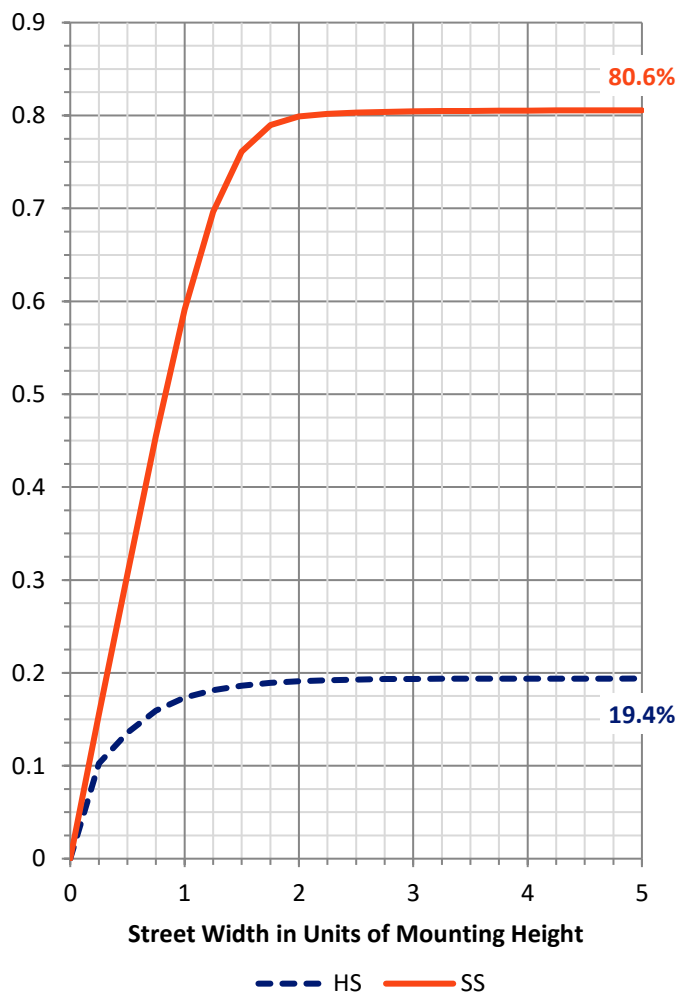
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3019.1	0.0	3019.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	12476.8	0.0	12476.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	15495.9	0.0	15495.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.6	2.2
10°-20°	925.0	6.0
20°-30°	1587.4	10.2
30°-40°	2632.7	17.0
40°-50°	3870.3	25.0
50°-60°	4522.5	29.2
60°-70°	1533.0	9.9
70°-80°	78.4	0.5
80°-90°	3.1	0.0
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°	15495.9	100.0
0°-180°	15495.9	100.0

Coefficient of Utilization



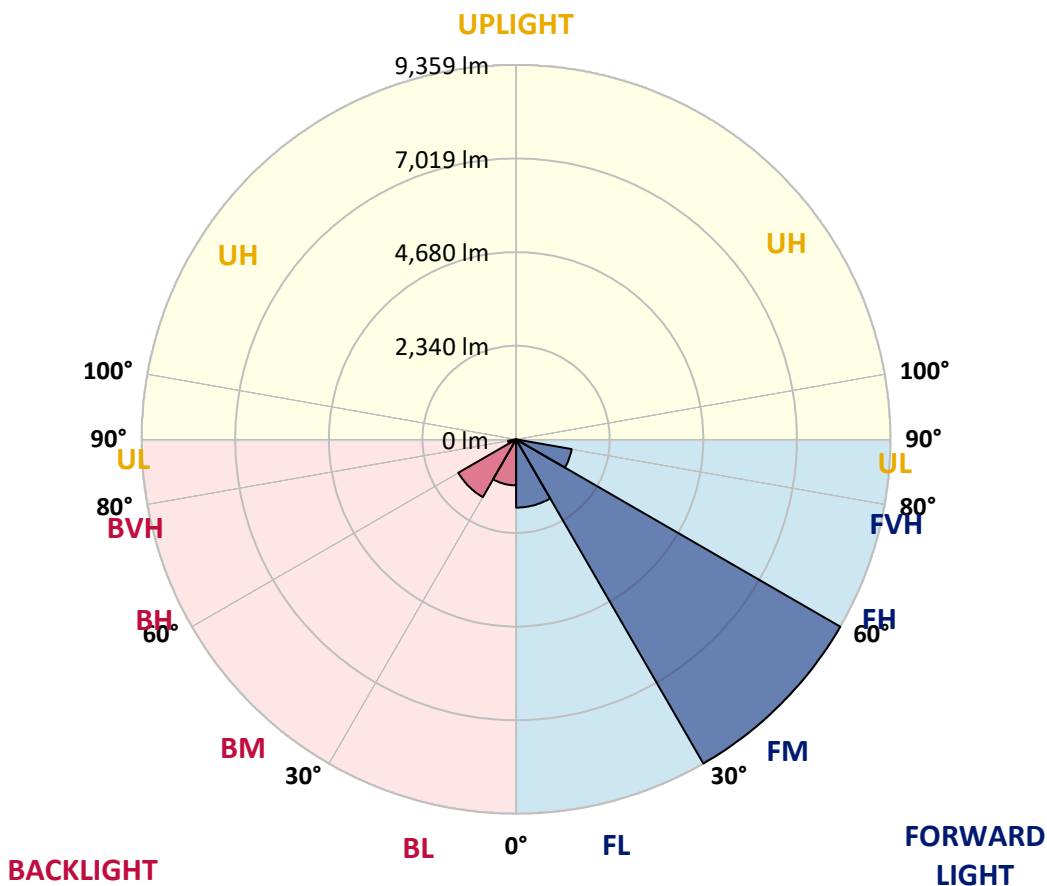
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1705.7	11.0			
FM (30°-60°)	9359.1	60.4			
FH (60°-80°)	1410.4	9.1			G1/1800
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	1150.2	7.4	B3/2500		
BM (30°-60°)	1666.4	10.8	B2/2500		
BH (60°-80°)	201.0	1.3	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3716.0	3716.0	3716.0	3716.0	3716.0	3716.0	3716.0	3716.0	3716.0	3716.0	3716.0
2.5°	3461.0	3453.9	3468.1	3496.4	3523.0	3531.8	3558.4	3595.6	3618.6	3673.5	3717.8
5°	3305.1	3301.6	3315.7	3340.5	3376.0	3388.4	3429.1	3491.1	3553.1	3648.7	3742.6
7.5°	3163.4	3161.6	3182.9	3237.8	3289.2	3305.1	3354.7	3430.9	3514.1	3661.1	3799.3
10°	2977.4	2979.2	3019.9	3097.9	3191.8	3223.6	3303.3	3413.2	3521.2	3710.7	3902.0
12.5°	2917.2	2920.8	2942.0	3002.2	3105.0	3145.7	3257.3	3423.8	3561.9	3781.6	4034.9
15°	3064.2	3064.2	3046.5	3053.6	3099.6	3136.8	3253.7	3459.2	3631.0	3866.6	4165.9
17.5°	3349.4	3338.8	3294.5	3234.3	3218.3	3230.7	3324.6	3535.4	3728.4	3965.8	4314.7
20°	3735.5	3739.1	3652.3	3526.5	3425.6	3423.8	3480.5	3670.0	3868.4	4084.5	4475.9
22.5°	4203.1	4189.0	4073.8	3902.0	3726.7	3712.5	3735.5	3875.4	4070.3	4272.2	4674.3
25°	4745.1	4738.0	4575.1	4344.8	4112.8	4079.1	4079.1	4217.3	4359.0	4539.7	4911.6
27.5°	5311.9	5311.9	5154.3	4888.6	4580.4	4520.2	4511.3	4674.3	4768.1	4803.6	5111.8
30°	5894.6	5887.6	5731.7	5458.9	5129.5	5067.5	5042.7	5163.1	5230.4	5124.2	5361.5
32.5°	6486.2	6498.6	6341.0	6087.7	5793.7	5752.9	5676.8	5676.8	5731.7	5582.9	5754.7
35°	7122.1	7118.6	6994.6	6822.8	6571.3	6525.2	6399.4	6202.8	6286.1	6220.6	6298.5
37.5°	7683.6	7710.2	7649.9	7522.4	7318.7	7272.7	7065.4	6709.4	6773.2	6875.9	6945.0
40°	8253.9	8275.2	8335.4	8294.7	8037.8	7952.8	7584.4	6999.9	7070.7	7423.2	7621.6
42.5°	8813.6	8824.3	8946.5	9013.8	8670.2	8521.4	7977.6	7177.0	7251.4	7851.9	8199.0
45°	9169.6	9192.7	9394.6	9600.1	9228.1	9024.4	8319.5	7403.7	7435.6	8149.4	8625.9
47.5°	9155.5	9208.6	9587.7	9961.4	9708.1	9488.5	8730.4	7766.8	7713.7	8429.3	8907.5
50°	8870.3	8934.1	9477.8	10071.2	10053.5	9849.8	9187.4	8292.9	8126.4	8677.2	8942.9
52.5°	8278.7	8462.9	9284.8	10085.4	10331.6	10228.8	9752.4	9001.4	8684.3	9033.3	8999.6
55°	6999.9	7226.6	8698.5	9964.9	10583.1	10595.5	10345.7	9740.0	9290.1	9646.1	9348.5
57.5°	5313.7	5494.3	6695.2	8870.3	10166.8	10370.5	10576.0	10129.7	9663.8	10064.1	9430.0
60°	3202.4	3411.4	4192.5	6509.3	8211.4	8558.6	9364.5	9277.7	8716.2	8888.0	7733.2
62.5°	1298.3	1408.1	1936.0	3586.7	5168.4	5492.6	6264.8	6395.9	6257.7	6082.4	4690.2
65°	474.7	519.0	775.8	1482.5	2377.0	2495.7	2903.0	3135.1	3326.4	2832.2	1744.7
67.5°	294.0	322.4	504.8	761.6	864.4	804.1	818.3	975.9	931.7	575.6	311.7
70°	217.9	240.9	395.0	527.8	348.9	269.2	182.4	194.8	175.4	154.1	152.3
72.5°	150.6	171.8	295.8	311.7	134.6	95.6	67.3	93.9	106.3	104.5	108.0
75°	99.2	115.1	186.0	122.2	33.7	26.6	23.0	49.6	63.8	63.8	65.5
77.5°	58.5	67.3	65.5	24.8	7.1	7.1	5.3	8.9	14.2	15.9	19.5
80°	7.1	5.3	3.5	3.5	3.5	3.5	3.5	3.5	5.3	5.3	5.3
82.5°	1.8	1.8	1.8	3.5	3.5	3.5	3.5	3.5	3.5	5.3	5.3
85°	0.0	0.0	1.8	1.8	3.5	3.5	3.5	3.5	3.5	5.3	5.3
87.5°	0.0	0.0	1.8	1.8	3.5	3.5	3.5	3.5	3.5	5.3	5.3
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°	3716.0	3716.0	3716.0	3716.0	3716.0	3716.0	3716.0	3716.0	3716.0	3716.0	3716.0
2.5°	3751.5	3739.1	3790.4	3827.6	3857.7	3871.9	3852.4	3850.6	3850.6	3811.7	3801.1
5°	3795.7	3801.1	3873.7	3905.6	3910.9	3893.2	3848.9	3818.8	3801.1	3760.3	3737.3
7.5°	3880.8	3898.5	3967.5	3962.2	3914.4	3832.9	3716.0	3625.7	3567.3	3503.5	3464.5
10°	4003.0	4036.6	4079.1	4004.7	3852.4	3645.2	3404.3	3232.5	3129.8	3057.1	3012.9
12.5°	4151.8	4185.4	4171.2	3995.9	3678.8	3308.7	2998.7	2750.7	2632.0	2566.5	2520.5
15°	4302.3	4323.6	4231.5	3889.6	3372.4	2874.7	2529.3	2283.1	2137.9	2084.7	2045.8
17.5°	4456.4	4451.1	4242.1	3680.6	2963.3	2385.8	2045.8	1877.5	1836.8	1827.9	1824.4
20°	4617.6	4569.8	4199.6	3381.3	2470.9	1902.3	1709.2	1719.9	1794.3	1829.7	1836.8
22.5°	4801.8	4681.4	4093.3	2975.7	1967.8	1585.2	1604.7	1709.2	1810.2	1858.0	1865.1
25°	4998.4	4784.1	3916.2	2454.9	1551.6	1457.7	1572.9	1693.3	1801.3	1859.8	1866.9
27.5°	5127.7	4808.9	3625.7	1930.6	1332.0	1408.1	1530.3	1645.5	1757.1	1820.8	1829.7
30°	5267.6	4798.3	3230.7	1487.8	1257.6	1365.6	1471.9	1576.4	1679.1	1750.0	1757.1
32.5°	5473.1	4791.2	2748.9	1208.0	1227.5	1332.0	1409.9	1496.7	1567.5	1608.3	1603.0
35°	5742.3	4782.3	2187.5	1089.3	1209.7	1305.4	1367.4	1408.1	1330.2	1305.4	1310.7
37.5°	6087.7	4803.6	1714.5	1039.7	1204.4	1298.3	1351.4	1234.5	1114.1	1068.1	1061.0
40°	6470.3	4858.5	1307.2	1020.2	1222.1	1316.0	1291.2	1098.2	949.4	859.0	839.6
42.5°	6854.7	4918.7	1034.4	1013.1	1252.3	1365.6	1192.0	999.0	775.8	724.4	717.3
45°	7139.8	4908.1	894.5	1000.7	1278.8	1394.0	1165.5	857.3	692.5	669.5	671.3
47.5°	7283.3	4791.2	818.3	972.4	1289.5	1365.6	1099.9	798.8	635.9	660.7	681.9
50°	7207.1	4488.3	747.5	917.5	1266.4	1328.4	995.4	754.5	607.5	710.3	758.1
52.5°	7115.0	4116.3	669.5	832.5	1211.5	1277.1	954.7	742.1	589.8	685.5	720.9
55°	7237.2	3880.8	542.0	701.4	1103.5	1156.6	922.8	740.4	549.1	533.1	527.8
57.5°	7065.4	3411.4	387.9	504.8	846.6	915.7	899.8	728.0	487.1	485.3	492.4
60°	5460.7	2081.2	265.7	320.6	519.0	584.5	816.5	696.1	419.8	386.1	387.9
62.5°	3103.2	885.6	182.4	198.4	265.7	315.3	623.5	632.3	387.9	368.4	387.9
65°	1080.4	317.0	141.7	132.8	147.0	168.3	357.8	488.9	352.5	318.8	322.4
67.5°	223.2	157.6	125.8	109.8	109.8	109.8	182.4	304.7	290.5	253.3	256.8
70°	141.7	134.6	109.8	93.9	90.3	83.2	104.5	168.3	200.1	184.2	186.0
72.5°	104.5	102.7	86.8	76.2	67.3	60.2	65.5	83.2	102.7	106.3	108.0
75°	63.8	65.5	56.7	47.8	42.5	37.2	39.0	39.0	39.0	35.4	39.0
77.5°	19.5	21.3	17.7	14.2	12.4	12.4	12.4	10.6	8.9	5.3	5.3
80°	5.3	5.3	5.3	5.3	5.3	3.5	3.5	1.8	1.8	0.0	0.0
82.5°	5.3	5.3	5.3	5.3	3.5	3.5	1.8	1.8	0.0	0.0	0.0
85°	5.3	5.3	5.3	5.3	3.5	3.5	1.8	1.8	0.0	0.0	0.0
87.5°	5.3	5.3	5.3	5.3	3.5	3.5	1.8	1.8	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)