

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: P642846

Luminaire Tested: GWS-SA6D-760-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642846
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-SA6D-760-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31685.5 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

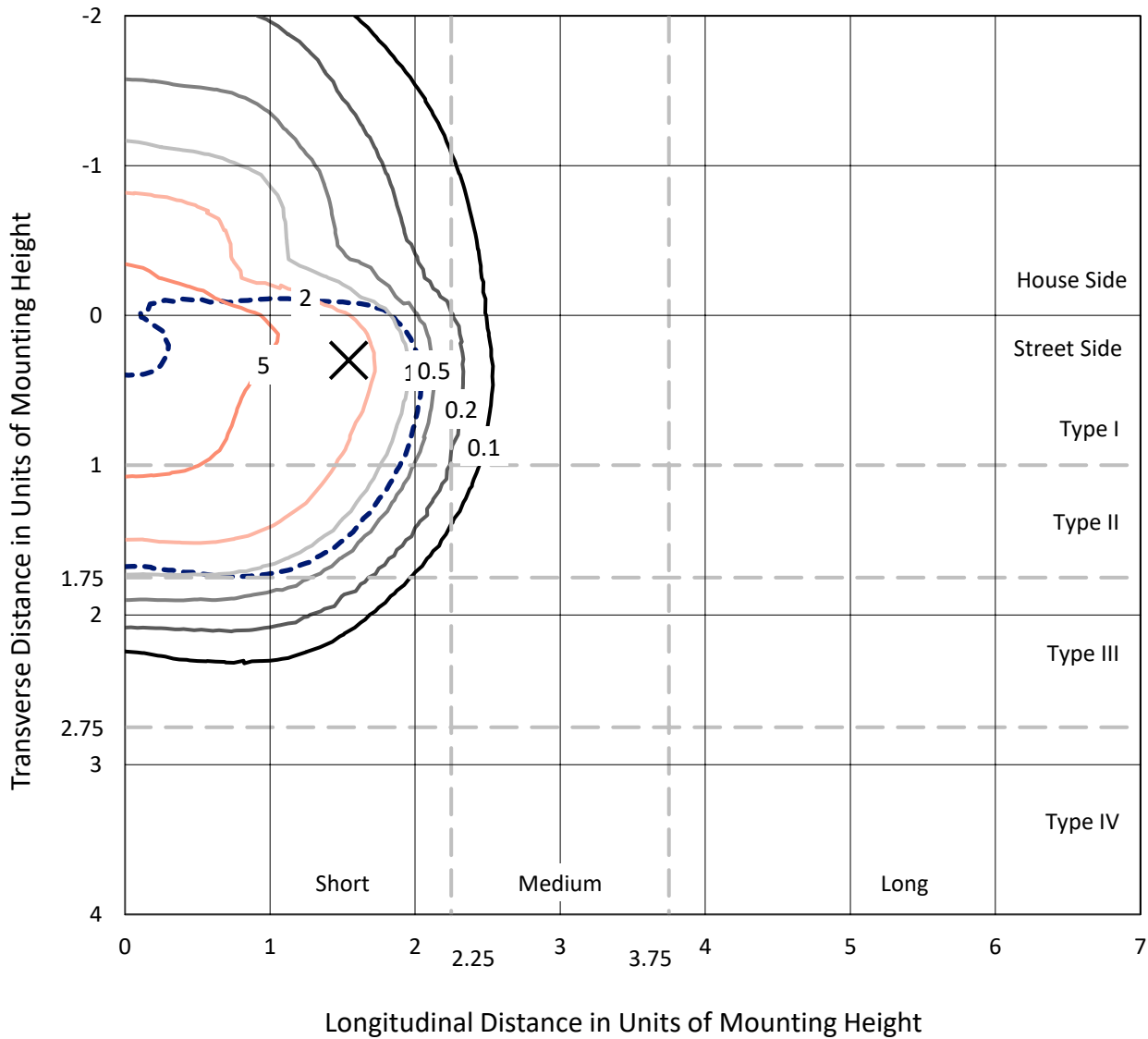
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

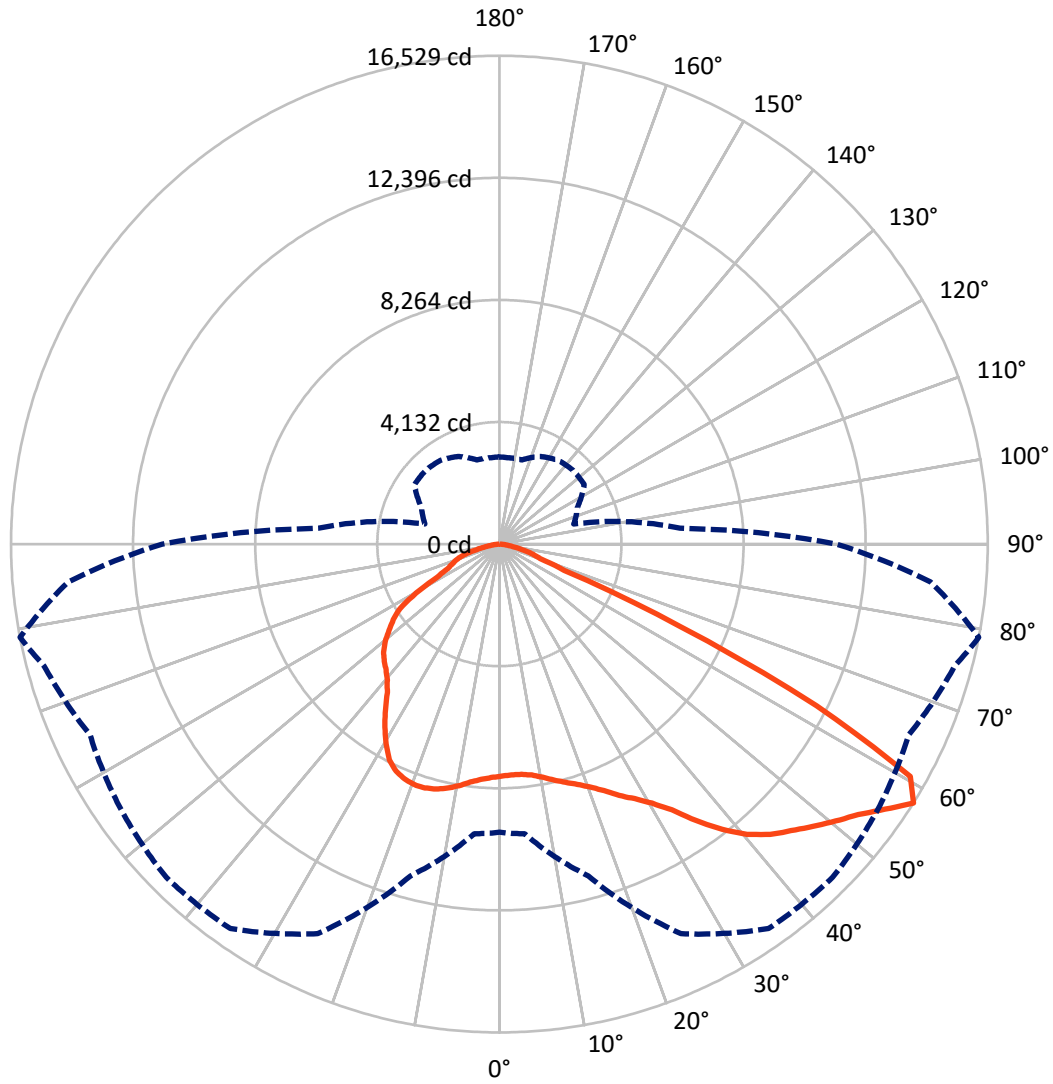
✕ Max cd
 - - - 1/2 Max cd



Based on 30 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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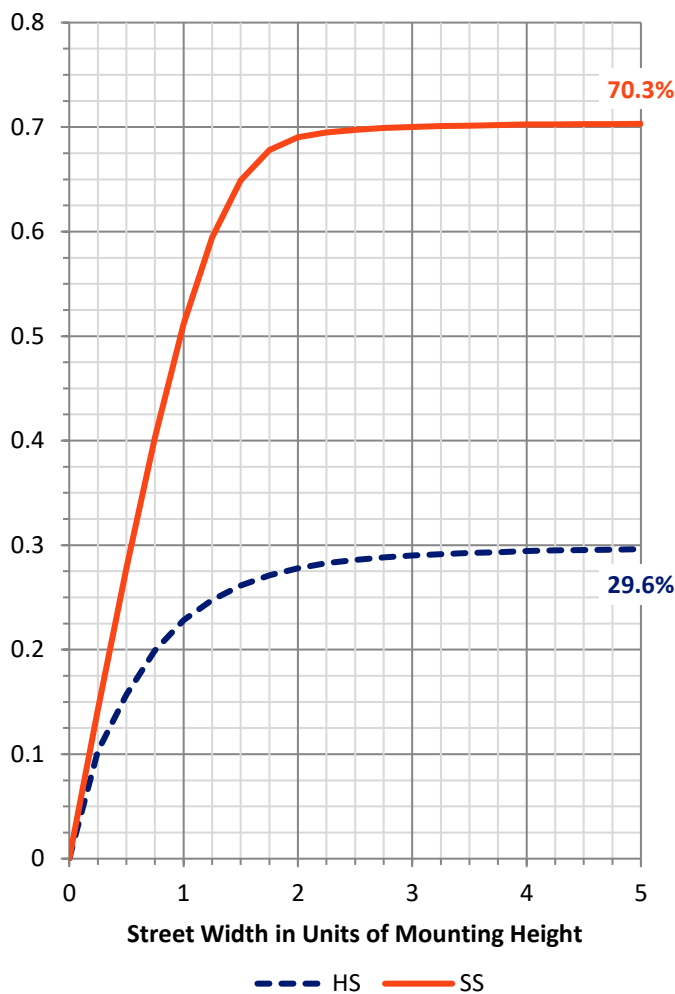
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9418.6	0.0	9418.6
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	22266.9	0.0	22266.9
	% Fixture	70.3	0.0	70.3
Total	Lumens	31685.5	0.0	31685.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.2	2.3
10°-20°	2020.9	6.4
20°-30°	3425.5	10.8
30°-40°	5243.2	16.5
40°-50°	6991.3	22.1
50°-60°	8074.4	25.5
60°-70°	4195.7	13.2
70°-80°	891.9	2.8
80°-90°	115.5	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°	31685.5	100.0
0°-180°	31685.5	100.0

Coefficient of Utilization



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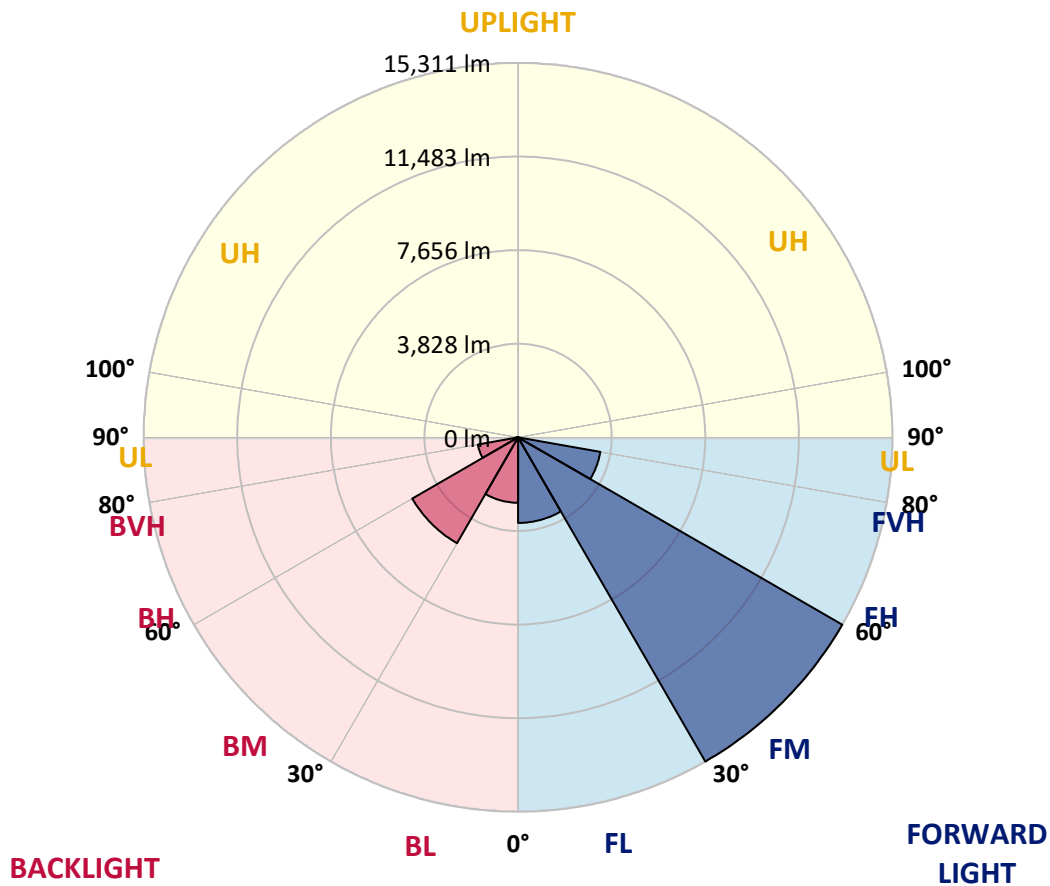
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3498.8	11.0			
FM (30°-60°)	15311.3	48.3			
FH (60°-80°)	3416.5	10.8			G2/5000
FVH (80°-90°)	40.3	0.1			G1/100
BL (0°-30°)	2674.8	8.4	B4/5000		
BM (30°-60°)	4997.5	15.8	B3/5000		
BH (60°-80°)	1671.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	75.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4
2.5°	7494.9	7479.3	7484.5	7505.2	7583.0	7640.0	7699.5	7754.0	7805.8	7821.3	7834.3
5°	7228.0	7199.5	7207.3	7241.0	7331.7	7427.5	7533.7	7663.3	7787.6	7829.1	7883.5
7.5°	7038.9	7033.7	7046.7	7098.5	7194.4	7285.0	7422.3	7606.3	7821.3	7891.3	7987.1
10°	6787.6	6777.3	6829.1	6935.3	7093.3	7238.4	7401.6	7619.2	7919.8	8023.4	8171.1
12.5°	6588.1	6583.0	6637.4	6785.0	6987.1	7217.7	7443.1	7686.6	8051.9	8194.4	8375.7
15°	6704.7	6681.4	6684.0	6787.6	6969.0	7241.0	7546.7	7808.4	8184.0	8365.4	8598.5
17.5°	7044.1	7002.7	6971.6	6989.7	7093.3	7375.7	7704.7	7971.6	8336.9	8549.3	8834.3
20°	7513.0	7489.7	7404.2	7347.2	7370.5	7619.2	7953.4	8202.1	8536.3	8774.7	9080.4
22.5°	8142.6	8085.6	7969.0	7878.3	7808.4	8002.7	8311.0	8526.0	8813.5	9062.3	9380.9
25°	8922.4	8839.5	8655.5	8513.0	8362.8	8562.3	8836.9	9000.1	9194.4	9425.0	9728.1
27.5°	9717.7	9647.8	9443.1	9251.4	9064.8	9189.2	9515.6	9608.9	9588.2	9756.6	10015.6
30°	10564.9	10476.8	10282.5	10075.2	9834.3	9914.6	10207.3	10254.0	10033.8	10173.7	10349.8
32.5°	11458.6	11373.2	11204.8	10963.8	10691.8	10722.9	10803.2	10847.2	10637.4	10717.7	10852.4
35°	12368.0	12287.7	12116.7	11878.3	11678.9	11489.7	11287.7	11463.8	11342.1	11497.5	11487.1
37.5°	13199.6	13119.3	13013.1	12829.1	12487.2	12114.1	11647.8	11865.4	12054.5	12251.4	12217.7
40°	13761.8	13707.4	13733.3	13704.8	13264.4	12526.0	11823.9	12062.3	12577.8	12914.6	12896.5
42.5°	14246.2	14191.8	14342.1	14450.9	13932.8	12906.8	11909.4	12137.4	12912.0	13437.9	13412.0
45°	14461.3	14445.7	14694.4	15039.0	14544.2	13311.0	12129.6	12292.9	13165.9	13839.5	13741.1
47.5°	14204.8	14259.2	14748.8	15331.7	15051.9	13790.3	12580.4	12621.9	13497.5	14274.7	13997.5
50°	13694.4	13813.6	14474.2	15339.5	15422.4	14331.7	13204.8	13101.1	13943.1	14738.5	14132.2
52.5°	12950.9	13075.2	14153.0	15279.9	15634.9	14958.7	14036.4	13888.7	14505.3	15202.2	14155.6
55°	11243.6	11412.0	13417.2	15145.2	15842.1	15528.6	14974.2	14673.7	15230.7	15839.5	14386.1
57.5°	9754.0	9842.1	11624.5	14546.8	15883.6	15948.3	15642.6	15285.1	15950.9	16528.6	14645.2
60°	7158.1	7178.8	8782.5	12036.4	14611.5	15704.8	15588.2	15057.1	15608.9	15976.8	13458.7
62.5°	4044.1	4046.7	5326.5	8033.7	10914.6	12800.6	12873.2	12404.3	11940.5	12049.3	9368.0
65°	1518.1	1660.6	2432.7	3948.2	6292.8	7557.1	7857.6	7966.4	7194.4	6715.1	5023.4
67.5°	1015.6	1049.2	1419.7	2031.1	2800.5	3233.2	3616.6	3627.0	2652.9	2365.3	1979.3
70°	774.6	808.3	1116.6	1453.4	1419.7	1310.9	1417.1	1378.3	1424.9	1463.7	1505.2
72.5°	577.7	611.4	865.3	1025.9	852.3	839.4	950.8	1057.0	1155.5	1196.9	1261.7
75°	383.4	409.3	582.9	549.2	471.5	557.0	694.3	800.5	857.5	906.7	956.0
77.5°	243.5	261.7	310.9	251.3	261.7	326.4	404.1	500.0	554.4	603.6	629.5
80°	111.4	108.8	106.2	119.2	147.7	191.7	243.5	300.5	342.0	362.7	378.2
82.5°	44.0	49.2	54.4	64.8	80.3	103.6	137.3	176.2	209.8	215.0	228.0
85°	18.1	20.7	23.3	28.5	36.3	46.6	57.0	80.3	101.0	108.8	116.6
87.5°	0.0	0.0	0.0	0.0	2.6	5.2	7.8	13.0	23.3	25.9	28.5
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°	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4	7852.4
2.5°	7904.2	7870.5	7927.5	7966.4	8002.7	7963.8	7950.8	7917.2	7912.0	7912.0	7930.1
5°	7976.8	7953.4	8013.0	8036.3	8033.7	7948.3	7896.4	7829.1	7795.4	7795.4	7800.6
7.5°	8106.3	8093.3	8127.0	8090.7	8007.8	7834.3	7663.3	7520.8	7424.9	7375.7	7391.3
10°	8321.3	8305.8	8277.3	8142.6	7904.2	7544.1	7194.4	6935.3	6779.9	6691.8	6696.9
12.5°	8531.2	8505.3	8404.2	8106.3	7616.6	7044.1	6585.5	6295.4	6124.4	6020.8	5997.5
15°	8761.7	8694.4	8476.8	7919.8	7147.7	6432.7	5953.4	5639.9	5456.0	5393.8	5391.2
17.5°	8981.9	8862.8	8469.0	7588.1	6585.5	5792.8	5310.9	5116.6	5085.5	5114.0	5121.8
20°	9204.7	9013.0	8383.5	7129.6	5917.1	5155.5	4906.8	4987.1	5103.7	5181.4	5199.5
22.5°	9435.3	9137.4	8189.2	6538.9	5212.5	4725.4	4829.1	5005.2	5150.3	5253.9	5264.3
25°	9694.4	9254.0	7899.0	5816.1	4647.7	4606.3	4810.9	4997.5	5152.9	5272.1	5292.8
27.5°	9842.1	9256.6	7492.3	5072.6	4388.6	4559.6	4766.9	4943.0	5098.5	5228.0	5251.3
30°	9987.1	9186.6	6847.2	4469.0	4313.5	4505.2	4691.8	4855.0	5002.6	5129.6	5158.1
32.5°	10191.8	9121.8	6103.7	4121.8	4269.5	4453.4	4606.3	4751.3	4865.3	4922.3	4937.9
35°	10445.7	9038.9	5313.5	3971.5	4241.0	4412.0	4546.7	4624.4	4476.7	4445.6	4479.3
37.5°	10800.6	8961.2	4525.9	3906.8	4222.8	4396.4	4515.6	4316.1	4134.8	4062.2	4088.1
40°	11184.0	8917.2	3992.3	3855.0	4230.6	4412.0	4386.0	4090.7	3829.0	3676.2	3671.0
42.5°	11510.5	8849.8	3650.3	3821.3	4251.3	4471.5	4209.9	3891.2	3502.6	3411.9	3414.5
45°	11730.7	8678.8	3468.9	3785.0	4269.5	4484.5	4127.0	3616.6	3339.4	3282.4	3279.8
47.5°	11821.3	8367.9	3352.4	3728.0	4266.9	4378.3	3958.6	3502.6	3225.4	3209.9	3220.2
50°	11761.8	7857.6	3233.2	3616.6	4204.7	4266.9	3764.3	3401.6	3147.7	3233.2	3295.4
52.5°	11541.6	7197.0	3090.7	3463.8	4093.3	4139.9	3665.8	3339.4	3090.7	3204.7	3253.9
55°	11484.6	6660.7	2909.4	3264.3	3927.5	3914.5	3562.2	3308.3	3051.8	3007.8	3015.6
57.5°	11409.4	6137.4	2608.8	2906.8	3507.8	3528.5	3463.8	3272.0	2950.8	2937.8	2950.8
60°	9912.0	4704.7	2326.4	2507.8	2880.9	2992.3	3352.4	3204.7	2787.6	2733.2	2730.6
62.5°	6474.1	2849.8	2070.0	2186.5	2347.2	2476.7	3057.0	3010.4	2608.8	2575.2	2598.5
65°	3481.9	2031.1	1883.4	1953.4	2041.5	2139.9	2533.7	2681.4	2357.5	2238.4	2241.0
67.5°	1779.8	1728.0	1743.5	1792.8	1860.1	1909.3	2044.1	2173.6	2010.4	1909.3	1906.8
70°	1523.3	1564.8	1588.1	1616.6	1660.6	1652.9	1665.8	1689.1	1676.2	1627.0	1624.4
72.5°	1297.9	1362.7	1367.9	1373.1	1388.6	1352.3	1329.0	1290.2	1292.8	1300.5	1303.1
75°	987.1	1049.2	1064.8	1057.0	1072.5	1025.9	994.8	956.0	909.3	901.6	906.7
77.5°	642.5	691.7	715.0	709.9	717.6	681.4	665.8	624.4	570.0	549.2	549.2
80°	388.6	417.1	435.2	440.4	448.2	422.3	396.4	360.1	336.8	313.5	313.5
82.5°	235.8	253.9	266.8	266.8	274.6	246.1	225.4	199.5	189.1	168.4	168.4
85°	119.2	132.1	137.3	134.7	129.5	106.2	98.4	85.5	80.3	69.9	69.9
87.5°	28.5	36.3	36.3	25.9	25.9	13.0	7.8	2.6	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)