

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: P640834

Luminaire Tested: GWS-SA5E-760-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-760-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22239.6 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

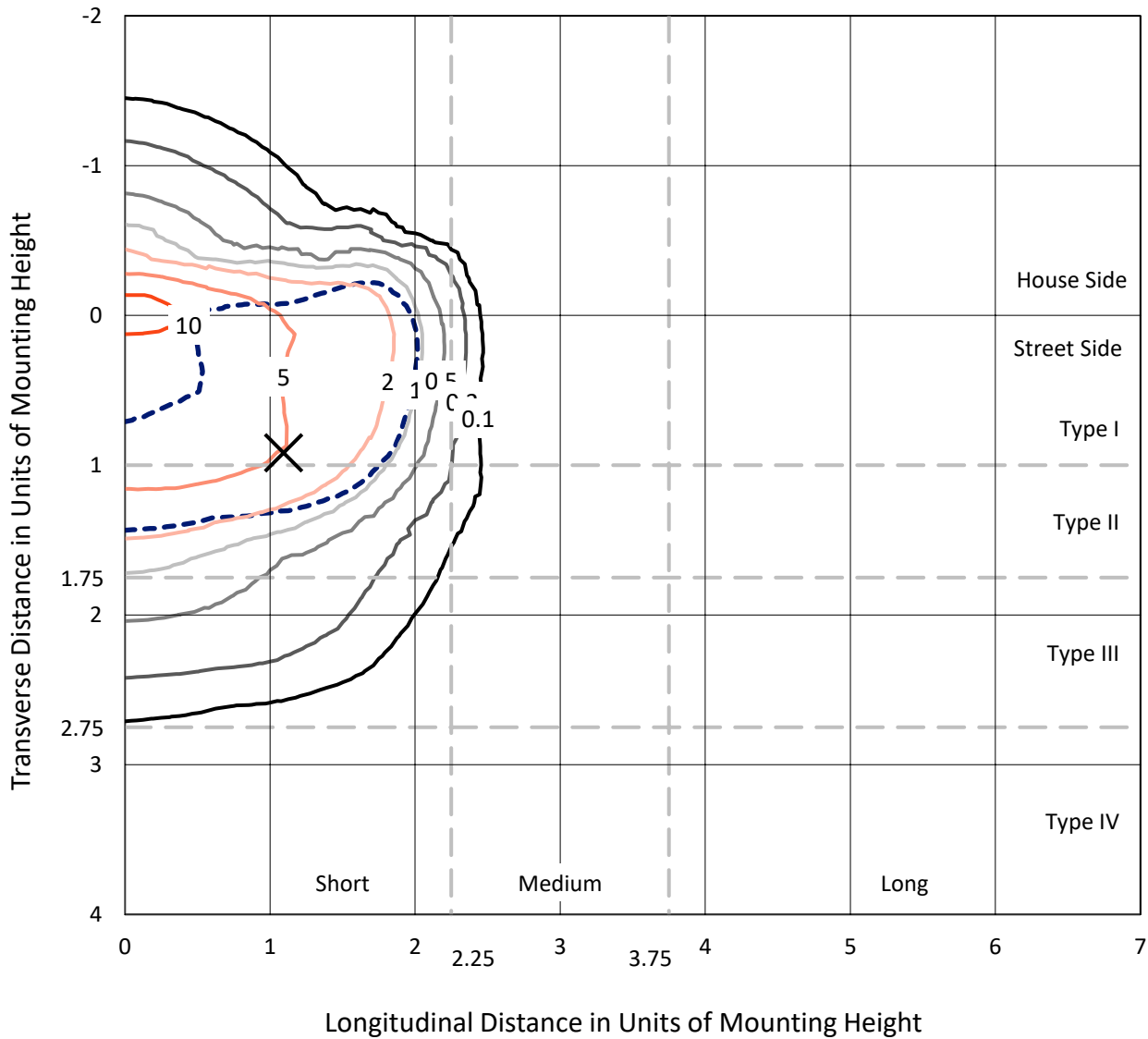
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640834
 CATALOG NUMBER: GWS-SA5E-760-U-SL2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

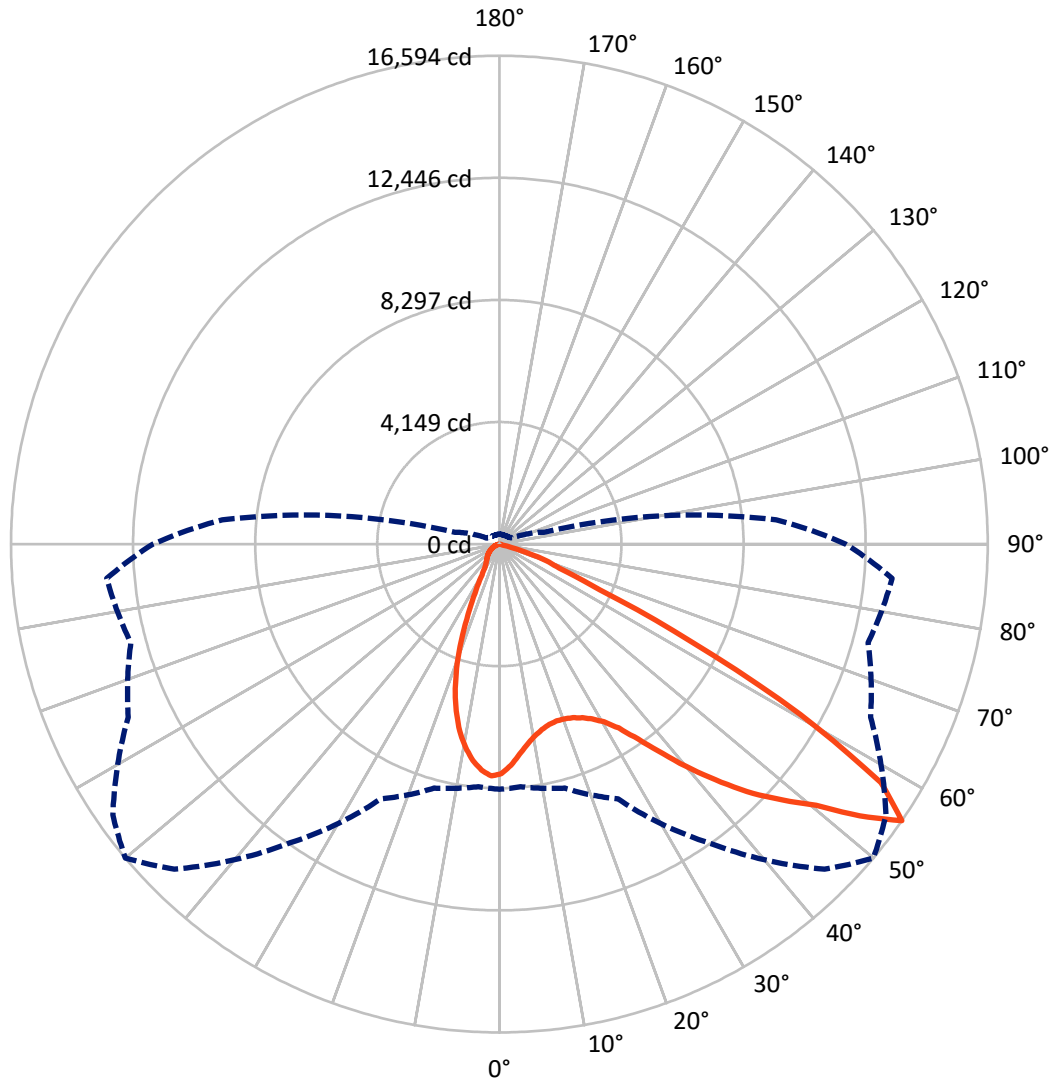
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - N/A

REPORT NUMBER: P640834
CATALOG NUMBER: GWS-SA5E-760-U-SL2-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P640834

CATALOG NUMBER: GWS-SA5E-760-U-SL2-W-GRSBK

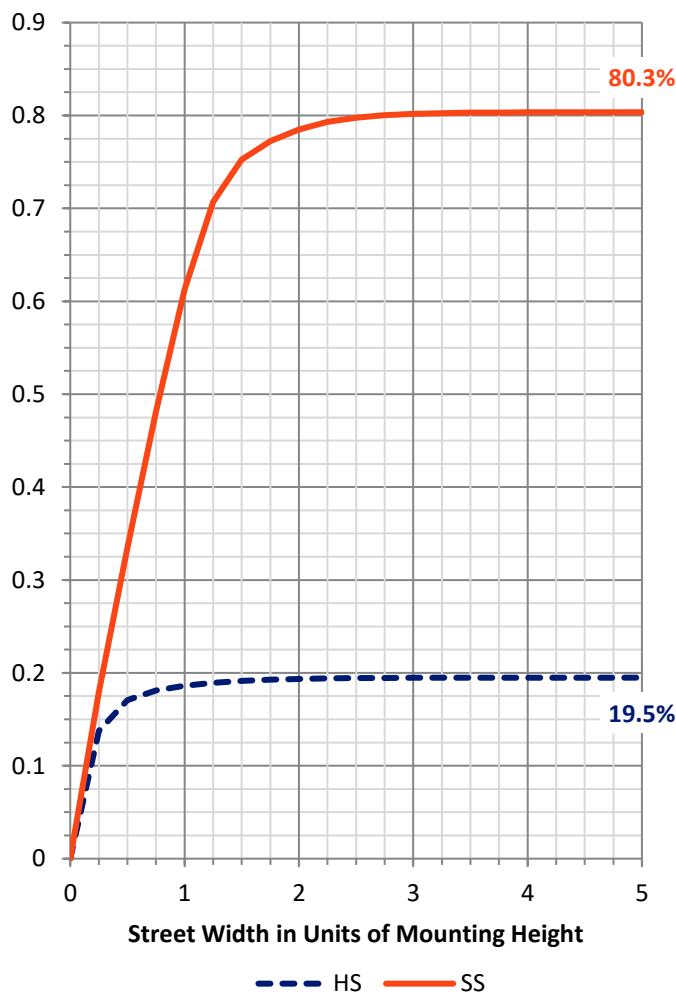
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4382.2	0.0	4382.2
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	17857.4	0.0	17857.4
	% Fixture	80.3	0.0	80.3
Total	Lumens	22239.6	0.0	22239.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	685.2	3.1
10°-20°	1686.3	7.6
20°-30°	2378.6	10.7
30°-40°	3519.8	15.8
40°-50°	5078.0	22.8
50°-60°	5989.9	26.9
60°-70°	2672.0	12.0
70°-80°	229.7	1.0
80°-90°	0.1	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°	22239.6	100.0
0°-180°	22239.6	100.0

Coefficient of Utilization



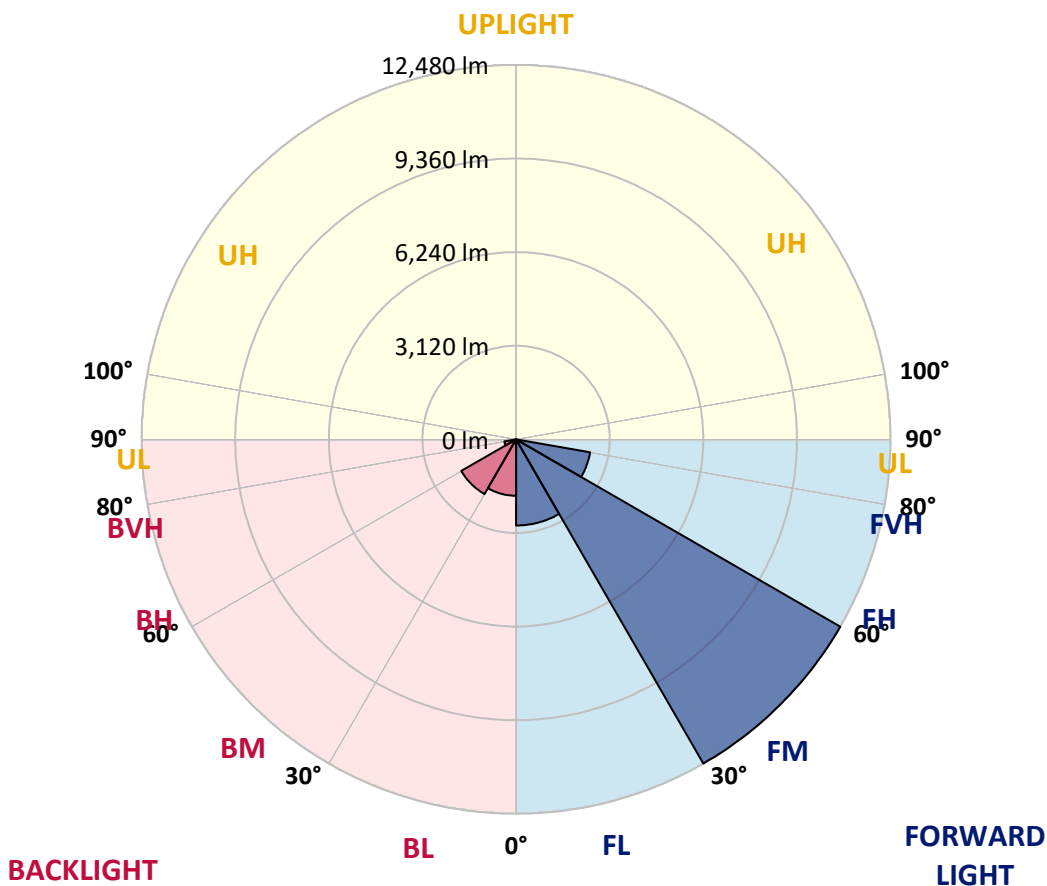
REPORT NUMBER: P640834

CATALOG NUMBER: GWS-SA5E-760-U-SL2-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2871.2	12.9			
FM (30°-60°)	12480.1	56.1			
FH (60°-80°)	2506.0	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1878.9	8.4	B3/2500		
BM (30°-60°)	2107.5	9.5	B2/2500		
BH (60°-80°)	395.7	1.8	B1/500		G1/500
BVH (80°-90°)	0.1	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-G2
 Type II Short





REPORT NUMBER: P640834

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	7802.9	7802.9	7802.9	7802.9	7802.9	7802.9	7802.9	7802.9	7802.9	7802.9	7802.9
2.5°	7249.0	7254.5	7257.2	7330.5	7357.6	7466.2	7523.2	7553.1	7631.8	7724.2	7800.2
5°	6763.0	6754.9	6768.5	6860.8	6920.5	7080.7	7167.6	7227.3	7401.1	7618.3	7800.2
7.5°	6339.5	6355.8	6372.1	6472.5	6562.1	6735.9	6860.8	6950.4	7192.0	7515.1	7821.9
10°	6040.9	6040.9	6065.3	6179.3	6285.2	6499.7	6624.6	6738.6	7026.4	7422.8	7846.3
12.5°	5820.9	5823.7	5853.5	5983.8	6106.0	6328.6	6459.0	6570.3	6887.9	7330.5	7851.8
15°	5717.8	5709.6	5734.1	5872.5	6008.3	6217.3	6353.1	6461.7	6790.2	7278.9	7878.9
17.5°	5690.6	5685.2	5704.2	5839.9	5978.4	6182.0	6315.1	6423.7	6776.6	7295.2	7960.4
20°	5769.4	5758.5	5750.4	5867.1	5997.4	6198.3	6336.8	6459.0	6841.8	7384.8	8085.2
22.5°	5956.7	5956.7	5937.7	5994.7	6081.6	6263.5	6407.4	6567.6	7012.8	7564.0	8269.9
25°	6301.5	6274.3	6239.1	6263.5	6252.6	6366.7	6537.7	6760.3	7335.9	7859.9	8495.2
27.5°	6695.2	6719.6	6659.9	6662.6	6567.6	6526.8	6725.0	7061.7	7816.5	8278.0	8829.2
30°	7230.0	7211.0	7213.7	7205.6	6985.7	6792.9	7007.4	7455.4	8421.9	8916.0	9263.6
32.5°	7648.1	7675.3	7764.9	7816.5	7528.7	7219.2	7447.2	7990.2	9111.5	9643.7	9795.7
35°	8090.7	8139.5	8321.5	8489.8	8248.1	7892.5	8136.8	8698.8	9760.4	10363.1	10406.6
37.5°	8557.7	8655.4	8872.6	9168.5	9130.5	8815.6	9038.2	9532.3	10270.8	10797.5	10911.6
40°	9092.5	9187.5	9543.2	9969.5	10059.0	9988.5	10061.8	10349.6	10607.5	10816.5	11128.8
42.5°	9678.9	9809.3	10260.0	10830.1	11166.8	11229.2	11058.2	11028.3	10754.1	10599.3	11082.6
45°	10371.3	10523.3	11033.7	11772.2	12307.1	12391.2	12095.3	11712.5	10846.4	10439.1	10944.1
47.5°	11147.8	11291.7	11799.4	12687.2	13482.7	13515.2	12999.4	12383.1	11120.6	10623.8	11050.0
50°	11408.4	11498.0	11937.8	12980.4	14446.5	14696.3	13949.6	13137.8	11671.8	11166.8	11565.9
52.5°	10512.5	10547.7	10930.6	11984.0	14251.0	15855.6	15337.0	14264.6	12651.9	11994.8	12361.4
55°	8329.6	8272.6	8582.1	9548.6	12385.8	15619.4	16594.0	16034.7	13914.3	12966.8	13395.8
57.5°	5826.4	5758.5	5687.9	6342.2	9241.8	13241.0	15290.8	16281.8	15117.1	13930.6	14511.6
60°	4789.2	4724.1	4382.0	4080.6	5587.5	9507.9	11745.1	13610.3	15019.3	13881.8	14476.3
62.5°	4137.6	4099.6	3961.2	3551.2	3287.9	5427.3	7354.9	9141.4	11525.1	10900.7	10933.3
65°	3249.8	3239.0	3334.0	3377.5	2907.8	3002.8	3752.1	4751.2	6230.9	5875.2	5571.2
67.5°	2220.9	2196.4	2375.6	2921.3	2796.4	2370.2	2196.4	2215.4	2696.0	1648.0	1308.6
70°	1411.8	1354.8	1357.5	1810.9	2275.2	1870.6	1694.2	1490.5	1341.2	244.3	276.9
72.5°	904.1	868.8	746.6	817.2	1053.4	912.2	920.4	792.8	529.4	130.3	152.0
75°	380.1	350.2	268.8	214.5	211.8	133.0	116.7	108.6	73.3	73.3	78.7
77.5°	2.7	0.0	0.0	2.7	5.4	2.7	2.7	5.4	10.9	16.3	19.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P640834

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7802.9	7802.9	7802.9	7802.9	7802.9	7802.9	7802.9	7802.9	7802.9	7802.9	7802.9
2.5°	7846.3	7781.2	7854.5	7881.6	7878.9	7881.6	7802.9	7748.6	7745.9	7678.0	7645.4
5°	7876.2	7824.6	7878.9	7843.6	7759.4	7653.6	7512.4	7390.2	7335.9	7257.2	7219.2
7.5°	7933.2	7878.9	7870.8	7729.6	7520.5	7297.9	7048.1	6825.5	6706.0	6562.1	6570.3
10°	7973.9	7911.5	7805.6	7517.8	7170.3	6814.6	6442.7	6111.4	5902.4	5709.6	5677.0
12.5°	7990.2	7897.9	7650.8	7216.4	6727.8	6263.5	5717.8	5245.4	4919.6	4667.1	4631.8
15°	8020.1	7870.8	7452.7	6852.6	6182.0	5525.0	4830.0	4183.8	3752.1	3461.6	3486.1
17.5°	8066.2	7840.9	7230.0	6445.4	5595.6	4667.1	3727.7	2986.5	2590.1	2421.8	2424.5
20°	8131.4	7805.6	6985.7	5997.4	4892.4	3697.8	2606.4	2047.1	1935.8	1930.4	1922.2
22.5°	8218.3	7770.3	6725.0	5506.0	4058.9	2590.1	1734.9	1561.1	1607.3	1696.9	1713.2
25°	8321.5	7726.9	6434.5	4952.1	3149.4	1699.6	1300.5	1273.3	1384.6	1504.1	1531.3
27.5°	8481.6	7705.1	6103.3	4322.3	2210.0	1219.0	1064.3	1080.6	1181.0	1281.5	1305.9
30°	8753.1	7745.9	5742.2	3616.4	1419.9	972.0	923.1	947.5	1001.8	1053.4	1075.1
32.5°	9122.4	7865.3	5392.0	2845.3	1012.7	844.4	833.5	847.1	868.8	898.7	906.8
35°	9554.1	8071.7	5030.9	2036.2	836.2	771.1	760.2	760.2	771.1	776.5	779.2
37.5°	9909.7	8288.9	4691.5	1354.8	749.3	714.0	697.8	689.6	686.9	692.3	695.0
40°	10064.5	8378.5	4322.3	985.5	686.9	662.5	638.0	613.6	613.6	632.6	635.3
42.5°	9955.9	8278.0	3896.0	814.5	643.5	608.2	570.1	548.4	559.3	578.3	583.7
45°	9725.1	8030.9	3426.3	719.5	600.0	553.9	510.4	496.8	507.7	532.1	537.6
47.5°	9687.1	7868.0	2864.3	657.0	553.9	507.7	461.5	448.0	461.5	480.6	486.0
50°	10064.5	8009.2	2239.9	602.7	510.4	458.8	420.8	407.2	415.4	426.3	431.7
52.5°	10754.1	8533.2	1808.2	551.1	458.8	410.0	385.5	369.2	369.2	380.1	382.8
55°	11772.2	9448.2	1561.1	491.4	399.1	372.0	350.2	333.9	333.9	339.4	342.1
57.5°	12945.1	10555.9	1618.1	412.7	350.2	336.7	317.7	304.1	309.5	309.5	309.5
60°	12782.2	10474.4	1732.2	347.5	309.5	304.1	287.8	282.4	295.9	285.1	279.6
62.5°	9415.6	7235.5	906.8	285.1	266.1	260.6	249.8	260.6	279.6	249.8	238.9
65°	4572.0	3502.3	363.8	233.5	225.3	219.9	214.5	230.8	241.6	195.5	184.6
67.5°	1075.1	874.2	236.2	198.2	187.3	176.5	181.9	184.6	176.5	133.0	127.6
70°	279.6	274.2	184.6	165.6	149.3	138.5	138.5	135.7	116.7	84.2	78.7
72.5°	152.0	149.3	133.0	124.9	103.2	92.3	95.0	84.2	65.2	48.9	46.2
75°	76.0	81.4	76.0	70.6	57.0	51.6	51.6	46.2	32.6	19.0	19.0
77.5°	16.3	19.0	19.0	16.3	13.6	10.9	10.9	13.6	5.4	0.0	0.0
80°	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)