

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: P641652

Luminaire Tested: GWS-SA6B-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-735-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15727.5 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

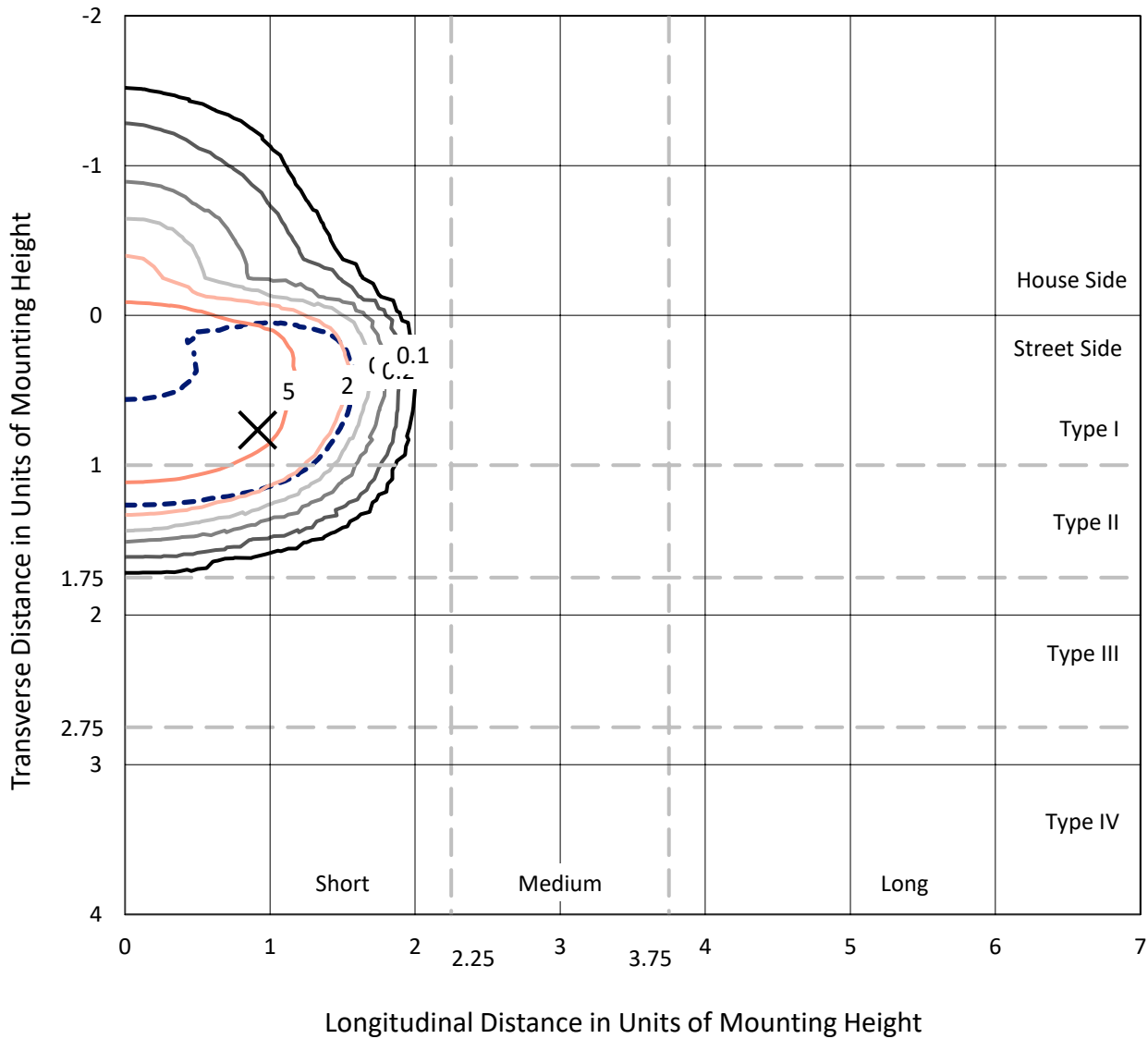
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

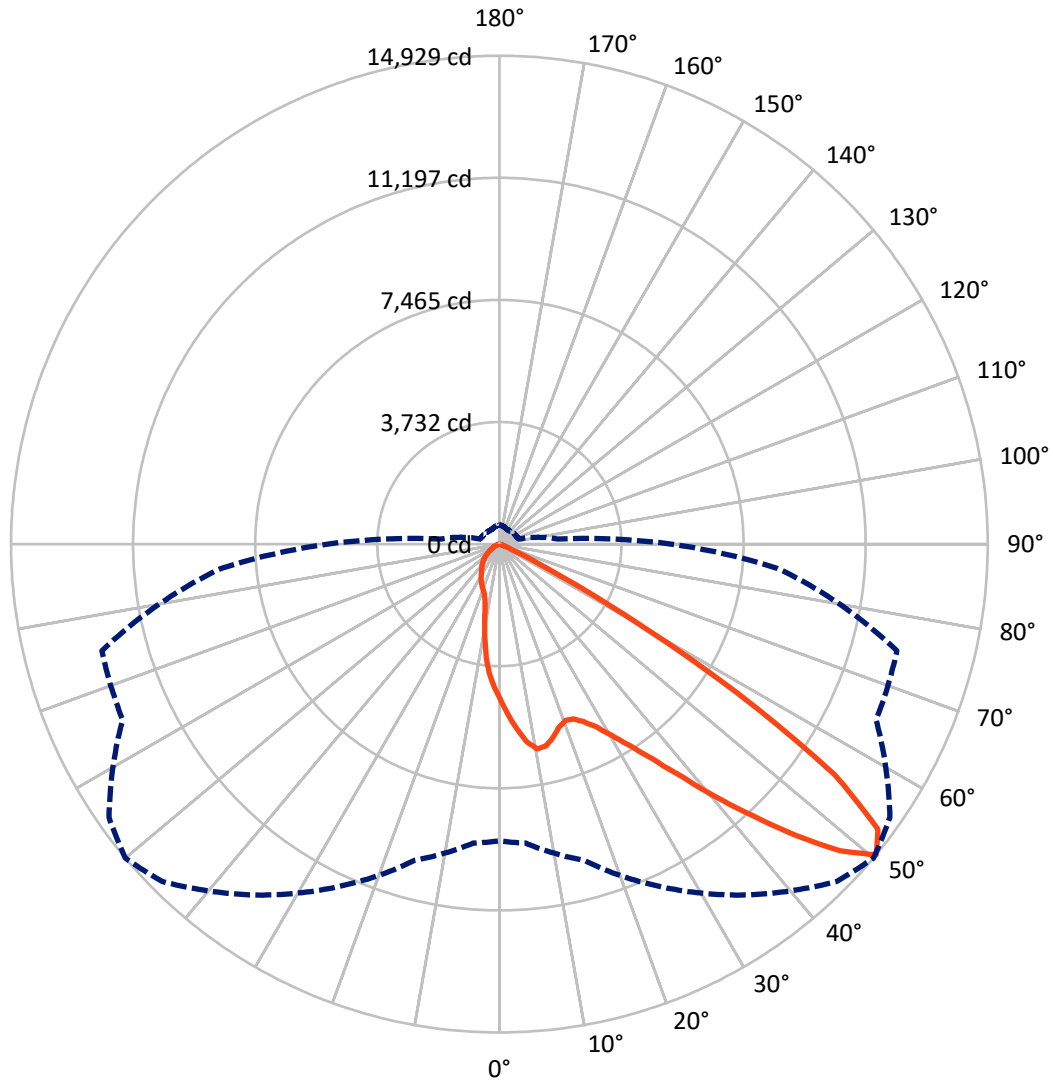
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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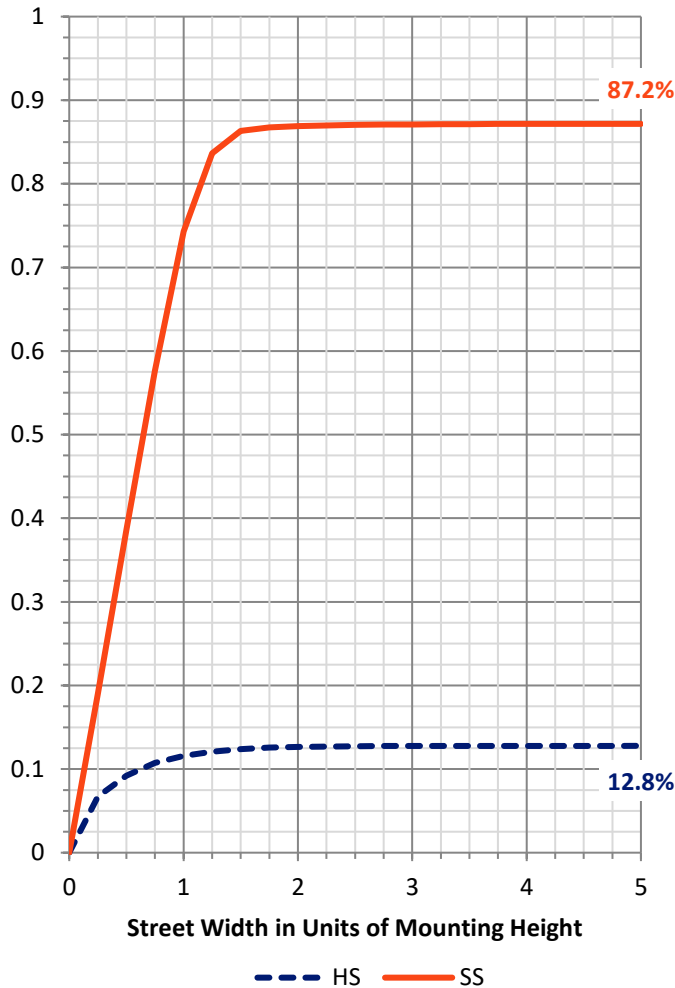
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2020.8	0.0	2020.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	13706.8	0.0	13706.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	15727.5	0.0	15727.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.0	2.8
10°-20°	1140.4	7.3
20°-30°	1882.1	12.0
30°-40°	3105.9	19.7
40°-50°	4914.2	31.2
50°-60°	3720.6	23.7
60°-70°	465.7	3.0
70°-80°	52.7	0.3
80°-90°	4.0	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°	15727.5	100.0
0°-180°	15727.5	100.0

Coefficient of Utilization



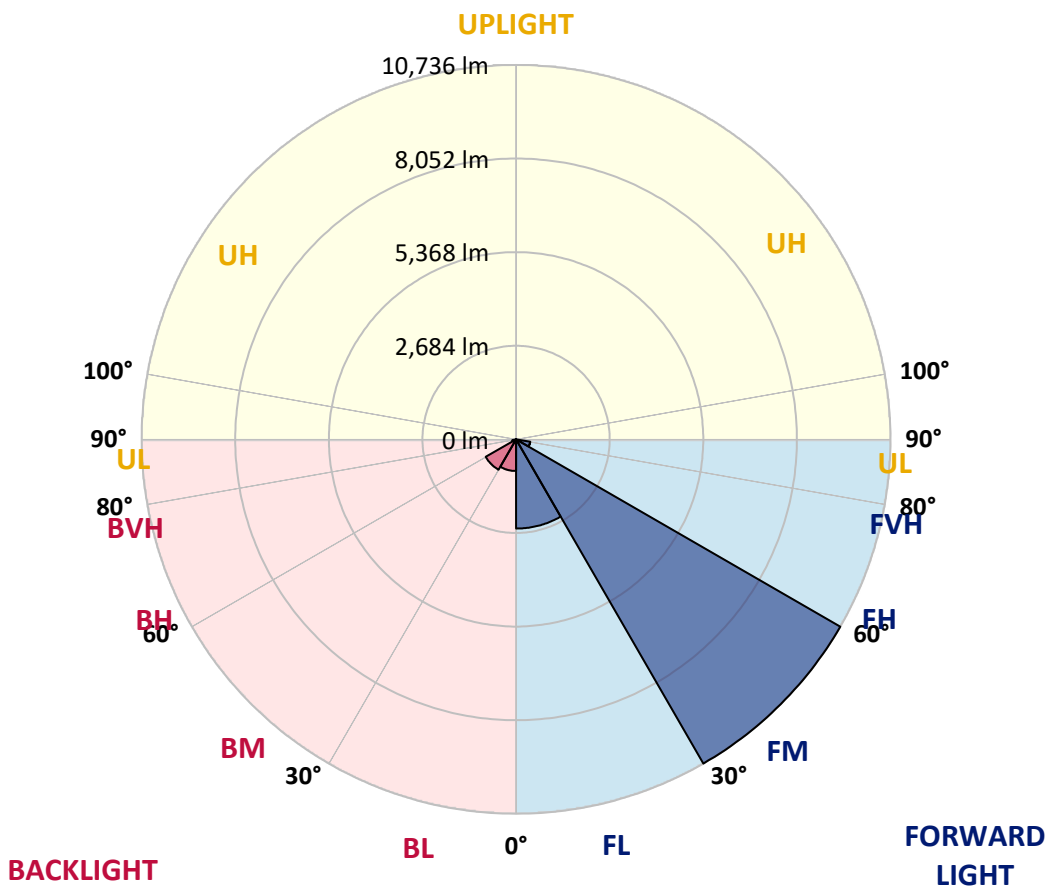
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2557.5	16.3			
FM (30°-60°)	10735.7	68.3			
FH (60°-80°)	411.7	2.6			G0/660
FVH (80°-90°)	1.9	0.0			G0/10
BL (0°-30°)	907.0	5.8	B2/1000		
BM (30°-60°)	1005.0	6.4	B2/2500		
BH (60°-80°)	106.6	0.7	B0/110		G0/110
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8
2.5°	5429.5	5472.9	5460.9	5404.0	5342.6	5299.2	5231.9	5210.9	5058.2	4951.9	4839.7
5°	6085.1	6098.6	6083.6	6014.8	5907.0	5803.7	5692.9	5628.6	5372.6	5142.0	4907.0
7.5°	6242.3	6225.8	6254.3	6288.7	6273.7	6228.8	6112.1	6041.7	5736.3	5360.6	5004.3
10°	5751.3	5713.9	5820.2	5998.3	6185.4	6396.5	6366.5	6372.5	6091.1	5636.0	5131.6
12.5°	5100.1	5085.2	5164.5	5371.1	5737.8	6216.9	6332.1	6525.2	6415.9	5933.9	5276.8
15°	4814.2	4821.7	4869.6	4999.8	5263.3	5859.1	6136.0	6484.8	6706.4	6222.8	5436.9
17.5°	4857.6	4884.6	4883.1	4926.5	5086.7	5564.2	5887.5	6357.6	6930.9	6555.2	5621.1
20°	5152.5	5179.5	5139.0	5106.1	5160.0	5489.3	5757.3	6228.8	7082.1	6890.5	5815.7
22.5°	5594.1	5625.6	5529.8	5435.4	5401.0	5612.1	5806.7	6176.4	7197.4	7197.4	5989.3
25°	6128.5	6171.9	6023.7	5856.1	5760.3	5871.1	6017.8	6294.7	7315.6	7472.8	6107.6
27.5°	6725.8	6727.3	6600.1	6411.5	6231.8	6245.3	6333.6	6561.2	7445.9	7769.2	6200.4
30°	7398.0	7402.4	7233.3	7007.2	6781.2	6719.8	6794.7	6966.8	7716.8	8141.9	6329.1
32.5°	8266.2	8287.1	8044.6	7712.3	7418.9	7303.6	7347.1	7528.2	8147.9	8609.0	6522.2
35°	9439.8	9462.3	9104.5	8665.9	8198.8	8025.2	8068.6	8251.2	8772.2	9272.1	6830.6
37.5°	10598.4	10628.4	10266.1	9857.4	9216.8	8929.3	8974.2	9147.9	9709.2	10188.3	7324.6
40°	11399.3	11439.7	11327.5	11052.0	10457.7	10080.5	10134.4	10197.3	10740.7	11284.0	7965.3
42.5°	11821.5	11878.3	11926.2	12067.0	11754.1	11438.2	11346.9	11351.4	11790.0	12400.8	8631.4
45°	11846.9	11902.3	12147.8	12691.2	12929.2	12863.3	12697.2	12584.9	12590.9	13144.8	9047.6
47.5°	11023.6	11126.9	11586.4	12650.8	13545.9	14092.3	14008.5	13742.0	12927.7	13194.2	9002.7
50°	9073.0	9174.8	10010.1	11541.5	13096.9	14583.3	14929.1	14571.4	12707.6	12578.9	8540.1
52.5°	6589.6	6600.1	7142.0	8930.8	11276.6	13677.7	14492.0	14457.6	12372.3	11833.4	7908.4
55°	3130.1	3092.7	3702.0	5040.2	7799.1	11062.5	12435.2	12824.4	11896.3	11294.5	7418.9
57.5°	911.6	929.6	1200.6	1967.0	3901.1	7070.1	8516.2	9240.7	9764.6	9285.6	5754.3
60°	408.7	410.2	456.6	598.8	1299.4	3288.8	4402.5	5299.2	5838.1	5410.0	2854.7
62.5°	296.4	297.9	315.9	338.3	441.6	1113.7	1651.1	2200.5	2240.9	1467.0	723.0
65°	247.0	247.0	250.0	250.0	265.0	398.2	501.5	646.7	544.9	404.2	282.9
67.5°	199.1	200.6	203.6	203.6	199.1	199.1	215.6	236.5	253.0	312.9	260.5
70°	155.7	154.2	154.2	155.7	151.2	128.7	139.2	158.7	173.6	244.0	226.0
72.5°	121.3	122.8	121.3	115.3	104.8	76.3	82.3	103.3	110.8	152.7	152.7
75°	91.3	92.8	86.8	65.9	43.4	24.0	31.4	50.9	64.4	74.8	55.4
77.5°	12.0	12.0	9.0	9.0	7.5	9.0	9.0	12.0	18.0	18.0	13.5
80°	1.5	1.5	1.5	3.0	4.5	6.0	6.0	6.0	6.0	7.5	7.5
82.5°	1.5	1.5	1.5	1.5	4.5	4.5	6.0	6.0	6.0	6.0	6.0
85°	0.0	0.0	0.0	1.5	3.0	4.5	4.5	6.0	6.0	6.0	6.0
87.5°	0.0	0.0	0.0	1.5	3.0	4.5	4.5	4.5	6.0	6.0	6.0
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°	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8	4764.8
2.5°	4772.3	4685.5	4580.7	4508.8	4407.0	4339.7	4243.9	4179.5	4124.1	4080.7	4104.7
5°	4773.8	4636.1	4422.0	4239.4	4040.3	3857.7	3661.6	3507.4	3368.1	3305.3	3339.7
7.5°	4803.7	4606.1	4278.3	3953.5	3571.7	3194.5	2841.2	2553.8	2411.6	2344.2	2365.2
10°	4862.1	4592.7	4118.1	3579.2	2959.5	2444.5	2101.7	1907.1	1827.8	1785.9	1793.4
12.5°	4916.0	4583.7	3910.0	3086.7	2335.2	1896.6	1718.5	1691.6	1708.0	1709.5	1708.0
15°	4989.4	4567.2	3652.6	2580.8	1868.2	1639.2	1643.7	1682.6	1721.5	1733.5	1730.5
17.5°	5067.2	4541.8	3320.2	2095.7	1585.3	1564.3	1616.7	1669.1	1708.0	1714.0	1715.5
20°	5148.0	4489.4	2941.5	1711.0	1453.5	1507.4	1565.8	1604.7	1633.2	1642.2	1645.2
22.5°	5185.5	4378.6	2504.4	1435.6	1365.2	1437.1	1480.5	1531.4	1540.4	1507.4	1513.4
25°	5166.0	4191.5	2077.8	1250.0	1276.9	1348.8	1413.1	1387.7	1350.3	1326.3	1333.8
27.5°	5104.6	3943.0	1660.1	1113.7	1182.6	1273.9	1281.4	1253.0	1247.0	1227.5	1233.5
30°	5038.7	3657.1	1335.3	1004.5	1086.8	1182.6	1160.1	1170.6	1172.1	1149.7	1157.1
32.5°	4998.3	3357.7	1062.8	931.1	1025.4	1043.4	1088.3	1109.2	1110.7	1058.3	1067.3
35°	5011.8	3062.8	899.7	871.2	968.5	964.0	1026.9	1038.9	952.1	880.2	887.7
37.5°	5121.1	2790.3	806.9	824.8	869.7	904.2	952.1	872.7	853.3	820.3	824.8
40°	5324.7	2558.3	751.5	796.4	802.4	857.8	784.4	794.9	796.4	775.4	779.9
42.5°	5562.7	2365.2	718.5	779.9	764.9	773.9	700.6	721.5	744.0	735.0	736.5
45°	5682.4	2176.6	690.1	723.0	727.5	642.2	625.7	648.2	676.6	681.1	682.6
47.5°	5576.2	1996.9	660.2	640.7	670.6	585.3	565.8	573.3	606.3	624.2	627.2
50°	5251.3	1790.4	615.2	567.3	550.9	525.4	507.5	509.0	546.4	577.8	583.8
52.5°	4794.7	1574.8	541.9	480.5	443.1	462.6	467.0	458.1	492.5	523.9	529.9
55°	4351.6	1305.3	429.6	390.7	356.3	398.2	410.2	398.2	408.7	429.6	431.1
57.5°	3064.3	738.0	329.3	323.3	294.9	341.3	360.8	342.8	324.8	338.3	341.3
60°	1420.6	386.2	253.0	253.0	245.5	293.4	326.3	300.9	266.5	272.4	276.9
62.5°	444.6	244.0	185.6	175.1	200.6	250.0	276.9	251.5	211.1	211.1	217.1
65°	251.5	209.6	146.7	134.7	163.2	200.6	217.1	190.1	154.2	151.2	151.2
67.5°	233.5	199.1	130.2	109.3	115.3	128.7	134.7	116.8	106.3	104.8	106.3
70°	193.1	166.2	104.8	74.8	70.4	68.9	71.9	67.4	64.4	65.9	70.4
72.5°	119.8	100.3	65.9	44.9	38.9	37.4	37.4	37.4	35.9	35.9	35.9
75°	43.4	37.4	29.9	22.5	19.5	18.0	18.0	19.5	18.0	16.5	15.0
77.5°	13.5	12.0	12.0	12.0	10.5	9.0	7.5	7.5	6.0	4.5	4.5
80°	7.5	7.5	7.5	7.5	6.0	6.0	4.5	3.0	1.5	1.5	0.0
82.5°	7.5	7.5	7.5	6.0	6.0	6.0	4.5	3.0	1.5	0.0	0.0
85°	6.0	6.0	6.0	6.0	6.0	6.0	4.5	3.0	1.5	0.0	0.0
87.5°	6.0	6.0	6.0	6.0	6.0	6.0	4.5	3.0	1.5	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)