

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: P639782

Luminaire Tested: GWS-SA5C-750-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639782
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-SA5C-750-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18345.2 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

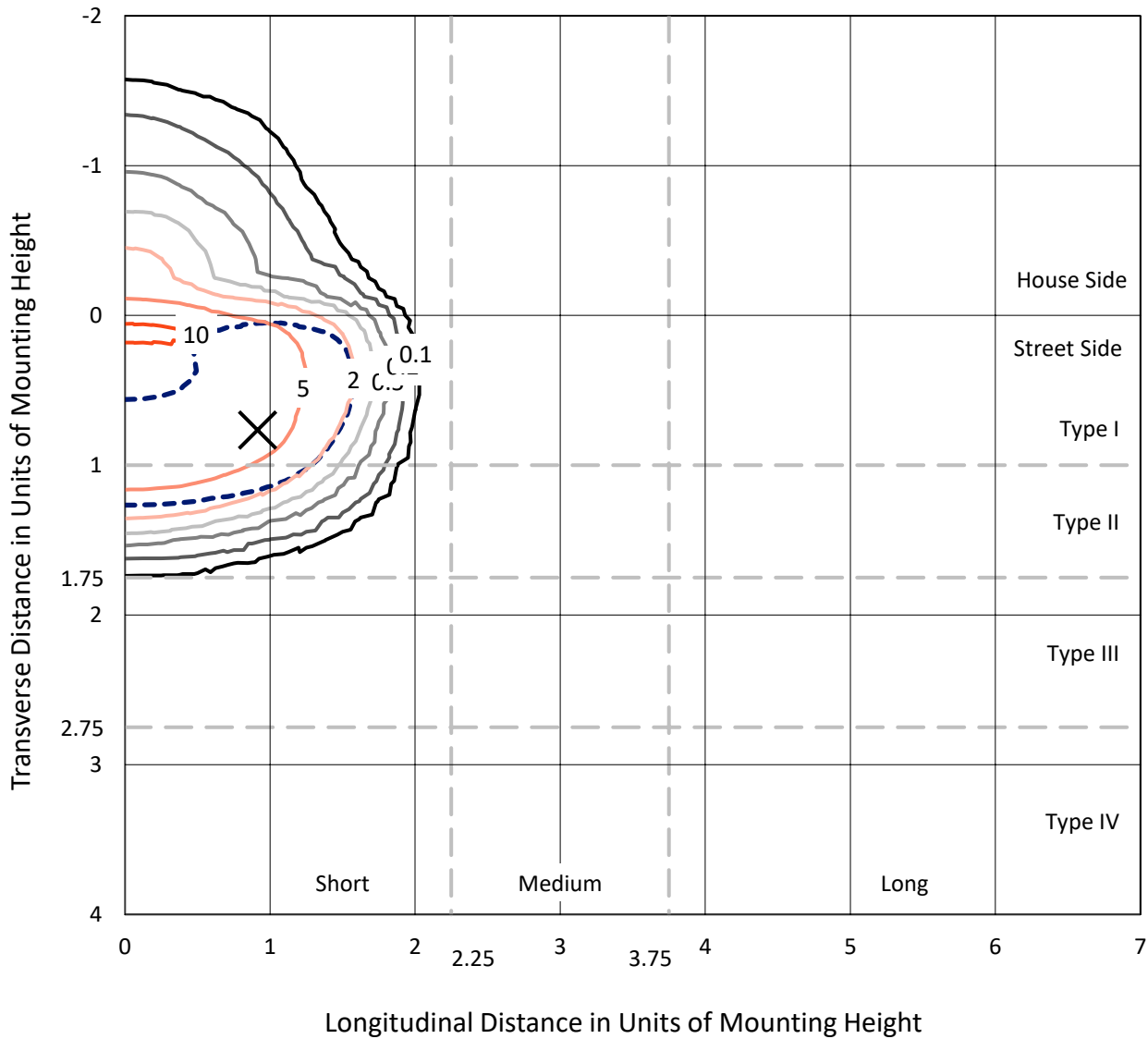
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639782
 CATALOG NUMBER: GWS-SA5C-750-U-AFL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

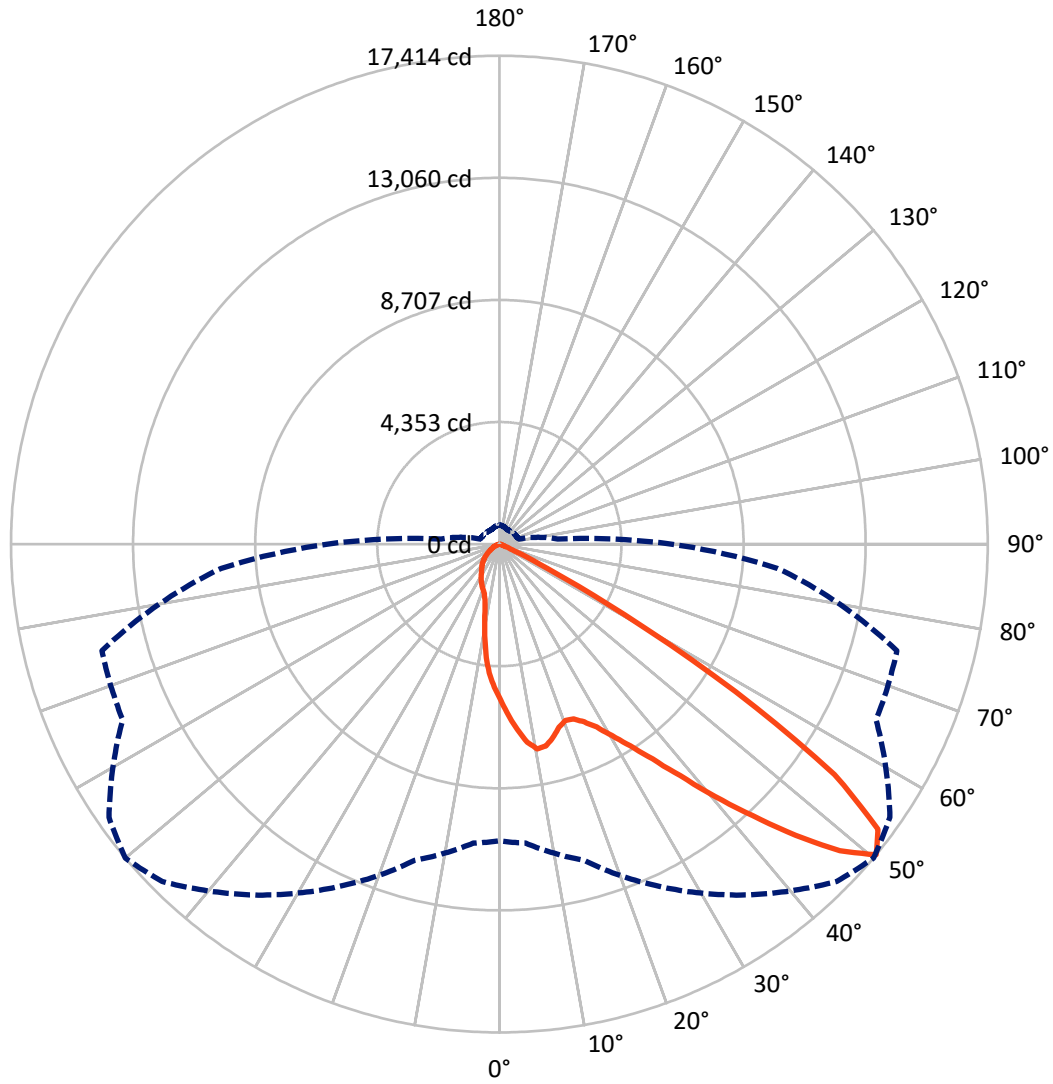
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - N/A

REPORT NUMBER: P639782
CATALOG NUMBER: GWS-SA5C-750-U-AFL-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P639782
 CATALOG NUMBER: GWS-SA5C-750-U-AFL-W-GRSBK

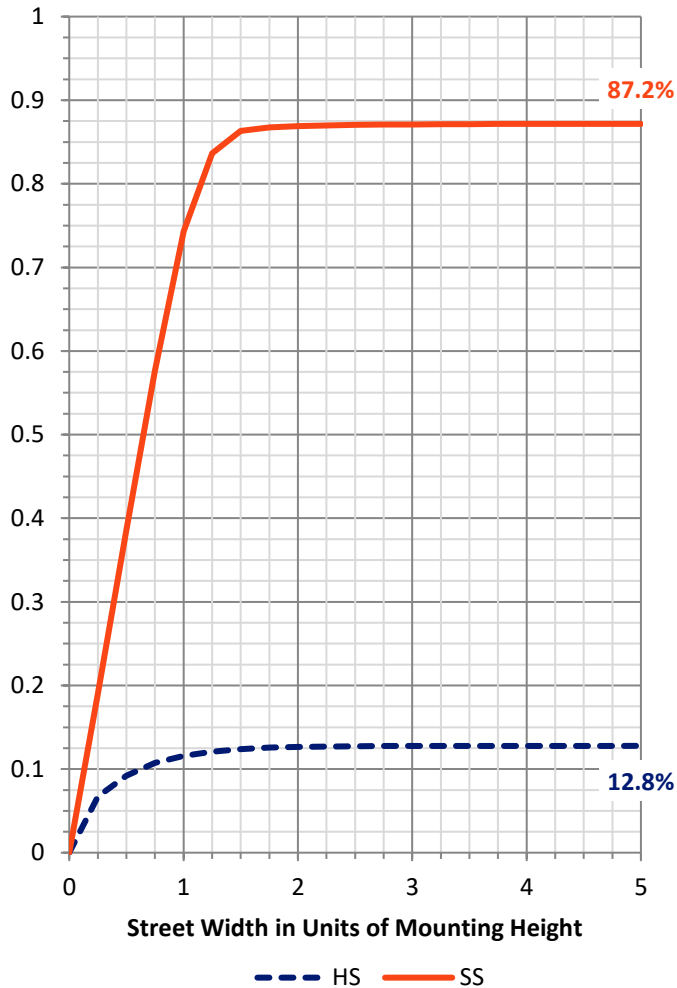
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2357.1	0.0	2357.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	15988.1	0.0	15988.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	18345.2	0.0	18345.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.6	2.8
10°-20°	1330.2	7.3
20°-30°	2195.4	12.0
30°-40°	3622.8	19.7
40°-50°	5732.1	31.2
50°-60°	4339.9	23.7
60°-70°	543.2	3.0
70°-80°	61.4	0.3
80°-90°	4.7	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°	18345.2	100.0
0°-180°	18345.2	100.0

Coefficient of Utilization



REPORT NUMBER: P639782

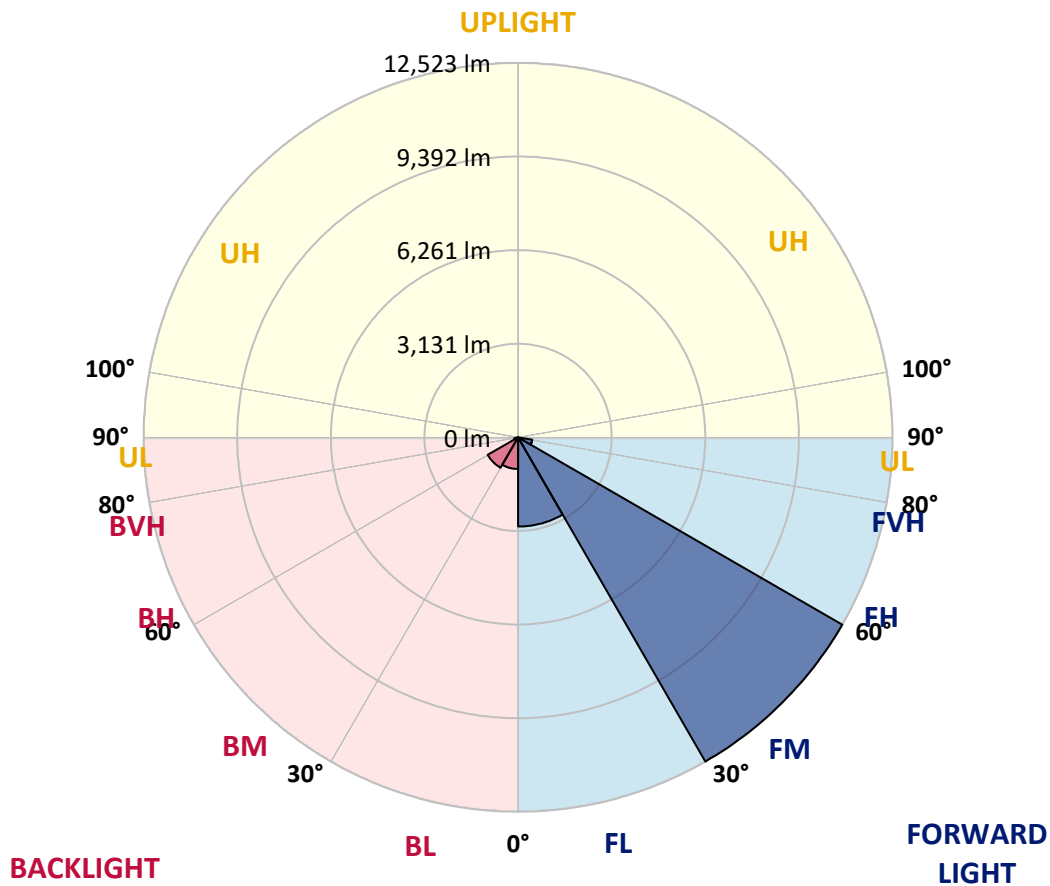
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2983.2	16.3			
FM (30°-60°)	12522.5	68.3			
FH (60°-80°)	480.2	2.6			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	1058.0	5.8	B3/2500		
BM (30°-60°)	1172.2	6.4	B2/2500		
BH (60°-80°)	124.4	0.7	B1/500		G1/500
BVH (80°-90°)	2.5	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





REPORT NUMBER: P639782

CATALOG NUMBER: GWS-SA5C-750-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9
2.5°	6333.1	6383.8	6369.8	6303.5	6231.9	6181.2	6102.7	6078.2	5900.1	5776.1	5645.2
5°	7097.9	7113.6	7096.2	7015.9	6890.1	6769.7	6640.5	6565.4	6266.8	5997.9	5723.7
7.5°	7281.3	7262.1	7295.2	7335.4	7317.9	7265.6	7129.4	7047.3	6691.1	6252.8	5837.2
10°	6708.6	6664.9	6788.9	6996.7	7214.9	7461.1	7426.2	7433.2	7104.9	6574.1	5985.7
12.5°	5949.0	5931.5	6024.1	6265.0	6692.8	7251.6	7386.0	7611.3	7483.8	6921.6	6155.0
15°	5615.5	5624.2	5680.1	5832.0	6139.3	6834.3	7157.3	7564.1	7822.6	7258.6	6341.9
17.5°	5666.1	5697.6	5695.8	5746.4	5933.3	6490.3	6867.4	7415.7	8084.5	7646.2	6556.6
20°	6010.1	6041.5	5994.4	5956.0	6018.8	6403.0	6715.5	7265.6	8260.8	8037.3	6783.6
22.5°	6525.2	6561.9	6450.1	6340.1	6300.0	6546.2	6773.2	7204.4	8395.3	8395.3	6986.2
25°	7148.6	7199.2	7026.3	6830.8	6719.0	6848.2	7019.4	7342.4	8533.2	8716.6	7124.1
27.5°	7845.3	7847.0	7698.6	7478.6	7269.1	7284.8	7387.8	7653.2	8685.1	9062.3	7232.4
30°	8629.3	8634.5	8437.2	8173.5	7909.9	7838.3	7925.6	8126.4	9001.2	9497.1	7382.6
32.5°	9642.0	9666.5	9383.6	8996.0	8653.7	8519.3	8569.9	8781.2	9504.1	10041.9	7607.8
35°	11011.0	11037.2	10619.8	10108.2	9563.4	9360.9	9411.5	9624.6	10232.2	10815.4	7967.5
37.5°	12362.5	12397.4	11974.8	11498.1	10750.8	10415.5	10467.9	10670.5	11325.3	11884.0	8543.7
40°	13296.6	13343.8	13212.8	12891.5	12198.3	11758.3	11821.2	11894.5	12528.3	13162.2	9291.0
42.5°	13789.0	13855.4	13911.3	14075.4	13710.5	13342.0	13235.5	13240.7	13752.4	14464.8	10068.1
45°	13818.7	13883.3	14169.7	14803.5	15081.1	15004.3	14810.5	14679.5	14686.5	15332.6	10553.5
47.5°	12858.3	12978.8	13514.9	14756.4	15800.5	16437.9	16340.1	16029.3	15079.4	15390.2	10501.1
50°	10583.2	10701.9	11676.2	13462.5	15276.7	17010.6	17413.9	16996.6	14822.7	14672.6	9961.6
52.5°	7686.4	7698.6	8330.7	10417.3	13153.4	15954.2	16904.1	16863.9	14431.6	13803.0	9224.7
55°	3651.1	3607.5	4318.1	5879.2	9097.2	12903.7	14504.9	14958.9	13876.3	13174.4	8653.7
57.5°	1063.4	1084.3	1400.4	2294.4	4550.4	8246.9	9933.6	10778.7	11389.9	10831.1	6712.0
60°	476.7	478.4	532.6	698.4	1515.6	3836.2	5135.3	6181.2	6809.8	6310.4	3329.8
62.5°	345.7	347.5	368.4	394.6	515.1	1299.1	1926.0	2566.8	2613.9	1711.2	843.4
65°	288.1	288.1	291.6	291.6	309.1	464.5	584.9	754.3	635.6	471.4	330.0
67.5°	232.2	234.0	237.5	237.5	232.2	232.2	251.4	275.9	295.1	364.9	303.8
70°	181.6	179.8	179.8	181.6	176.4	150.2	162.4	185.1	202.5	284.6	263.7
72.5°	141.4	143.2	141.4	134.5	122.2	89.1	96.0	120.5	129.2	178.1	178.1
75°	106.5	108.3	101.3	76.8	50.6	27.9	36.7	59.4	75.1	87.3	64.6
77.5°	14.0	14.0	10.5	10.5	8.7	10.5	10.5	14.0	21.0	21.0	15.7
80°	1.7	1.7	1.7	3.5	5.2	7.0	7.0	7.0	7.0	8.7	8.7
82.5°	1.7	1.7	1.7	1.7	5.2	5.2	7.0	7.0	7.0	7.0	7.0
85°	0.0	0.0	0.0	1.7	3.5	5.2	5.2	7.0	7.0	7.0	7.0
87.5°	0.0	0.0	0.0	1.7	3.5	5.2	5.2	5.2	7.0	7.0	7.0
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: P639782
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9
2.5°	5566.6	5465.3	5343.1	5259.3	5140.5	5062.0	4950.2	4875.1	4810.5	4759.9	4787.8
5°	5568.3	5407.7	5158.0	4945.0	4712.7	4499.7	4271.0	4091.1	3928.7	3855.4	3895.6
7.5°	5603.3	5372.8	4990.4	4611.5	4166.2	3726.2	3314.1	2978.9	2813.0	2734.4	2758.9
10°	5671.4	5357.1	4803.5	4174.9	3452.1	2851.4	2451.5	2224.5	2132.0	2083.1	2091.8
12.5°	5734.2	5346.6	4560.8	3600.5	2723.9	2212.3	2004.5	1973.1	1992.3	1994.1	1992.3
15°	5819.8	5327.4	4260.5	3010.3	2179.1	1912.0	1917.2	1962.6	2008.0	2022.0	2018.5
17.5°	5910.6	5297.7	3872.9	2444.6	1849.1	1824.7	1885.8	1946.9	1992.3	1999.3	2001.0
20°	6004.9	5236.6	3431.1	1995.8	1695.5	1758.3	1826.4	1871.8	1905.0	1915.5	1919.0
22.5°	6048.5	5107.4	2921.2	1674.5	1592.5	1676.3	1726.9	1786.3	1796.7	1758.3	1765.3
25°	6025.8	4889.1	2423.6	1458.0	1489.4	1573.2	1648.3	1618.6	1575.0	1547.1	1555.8
27.5°	5954.2	4599.3	1936.4	1299.1	1379.4	1485.9	1494.7	1461.5	1454.5	1431.8	1438.8
30°	5877.4	4265.7	1557.5	1171.6	1267.7	1379.4	1353.2	1365.5	1367.2	1341.0	1349.7
32.5°	5830.3	3916.5	1239.7	1086.1	1196.1	1217.0	1269.4	1293.9	1295.6	1234.5	1245.0
35°	5846.0	3572.5	1049.4	1016.2	1129.7	1124.5	1197.8	1211.8	1110.5	1026.7	1035.4
37.5°	5973.4	3254.7	941.2	962.1	1014.5	1054.7	1110.5	1018.0	995.3	956.9	962.1
40°	6210.9	2984.1	876.5	928.9	935.9	1000.5	915.0	927.2	928.9	904.5	909.7
42.5°	6488.5	2758.9	838.1	909.7	892.3	902.7	817.2	841.6	867.8	857.3	859.1
45°	6628.2	2538.8	805.0	843.4	848.6	749.1	729.9	756.1	789.2	794.5	796.2
47.5°	6504.3	2329.3	770.0	747.3	782.3	682.7	660.0	668.8	707.2	728.1	731.6
50°	6125.4	2088.3	717.7	661.8	642.6	612.9	591.9	593.7	637.3	674.0	681.0
52.5°	5592.8	1836.9	632.1	560.5	516.8	539.5	544.8	534.3	574.5	611.1	618.1
55°	5075.9	1522.6	501.1	455.7	415.6	464.5	478.4	464.5	476.7	501.1	502.9
57.5°	3574.3	860.8	384.1	377.2	344.0	398.1	420.8	399.9	378.9	394.6	398.1
60°	1657.1	450.5	295.1	295.1	286.4	342.2	380.7	351.0	310.8	317.8	323.0
62.5°	518.6	284.6	216.5	204.3	234.0	291.6	323.0	293.3	246.2	246.2	253.2
65°	293.3	244.5	171.1	157.1	190.3	234.0	253.2	221.8	179.8	176.4	176.4
67.5°	272.4	232.2	151.9	127.5	134.5	150.2	157.1	136.2	124.0	122.2	124.0
70°	225.2	193.8	122.2	87.3	82.1	80.3	83.8	78.6	75.1	76.8	82.1
72.5°	139.7	117.0	76.8	52.4	45.4	43.7	43.7	43.7	41.9	41.9	41.9
75°	50.6	43.7	34.9	26.2	22.7	21.0	21.0	22.7	21.0	19.2	17.5
77.5°	15.7	14.0	14.0	14.0	12.2	10.5	8.7	8.7	7.0	5.2	5.2
80°	8.7	8.7	8.7	8.7	7.0	7.0	5.2	3.5	1.7	1.7	0.0
82.5°	8.7	8.7	8.7	7.0	7.0	7.0	5.2	3.5	1.7	0.0	0.0
85°	7.0	7.0	7.0	7.0	7.0	7.0	5.2	3.5	1.7	0.0	0.0
87.5°	7.0	7.0	7.0	7.0	7.0	7.0	5.2	3.5	1.7	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)