

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: P633898

Luminaire Tested: GWS-SA2F-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-760-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14848.1 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

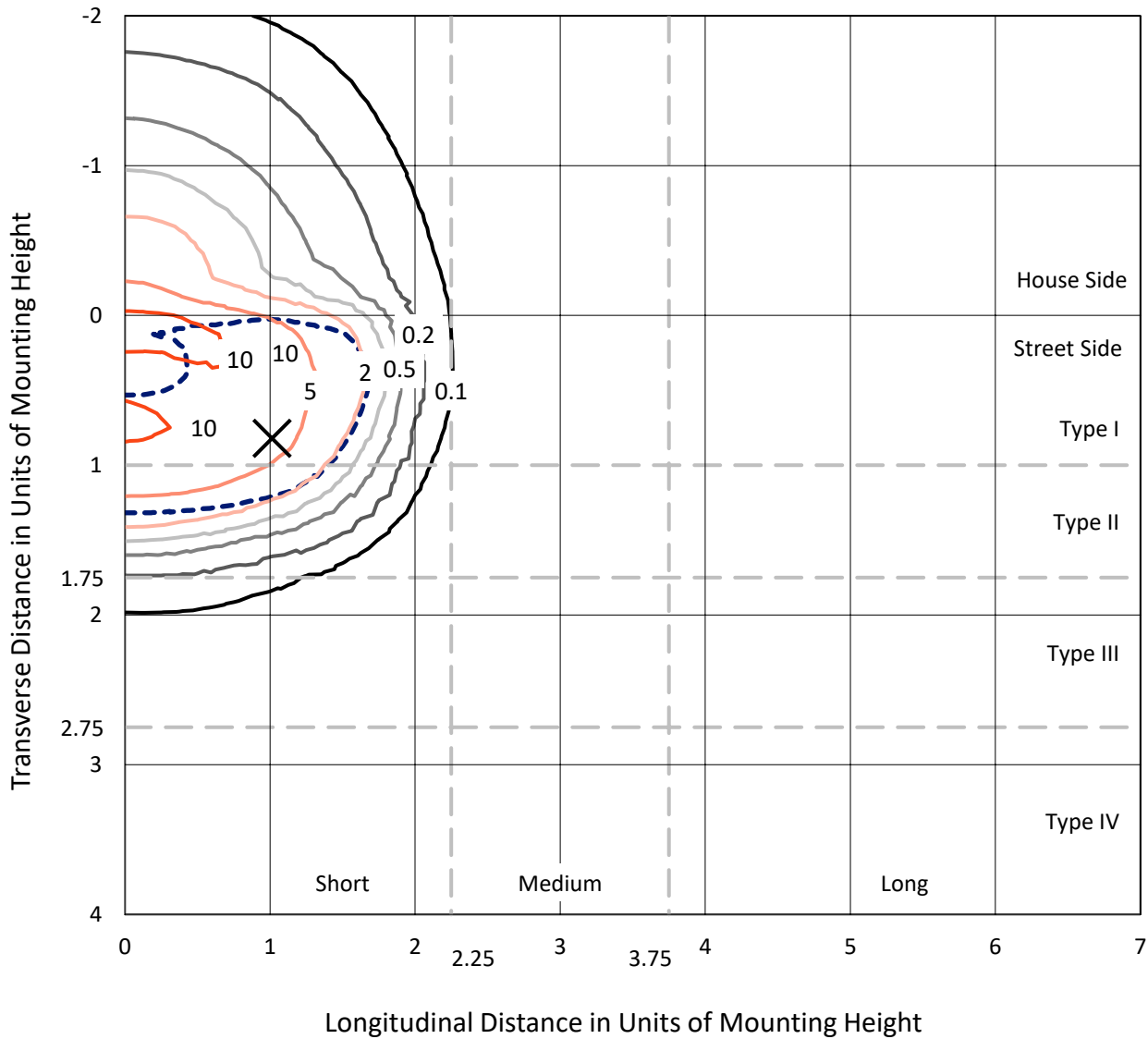
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

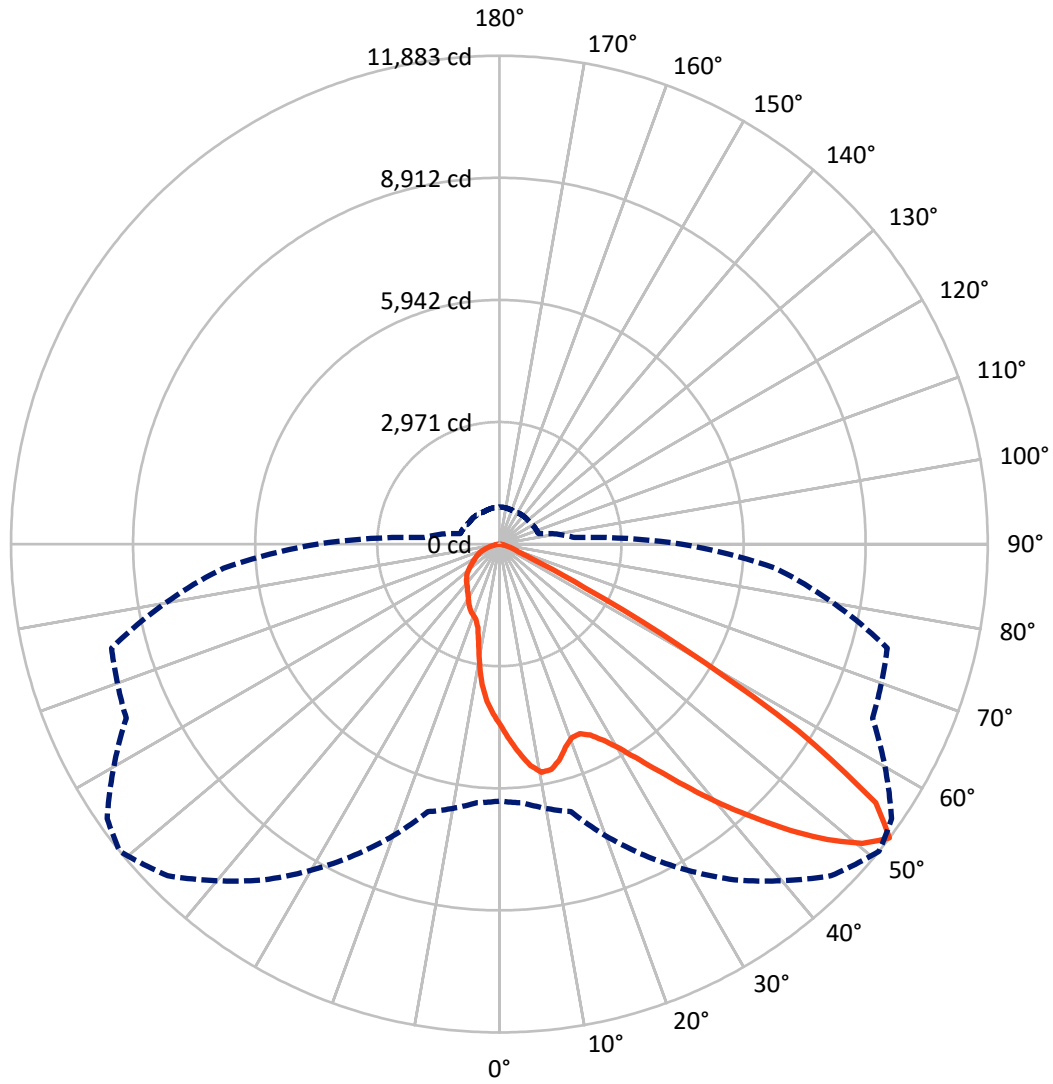
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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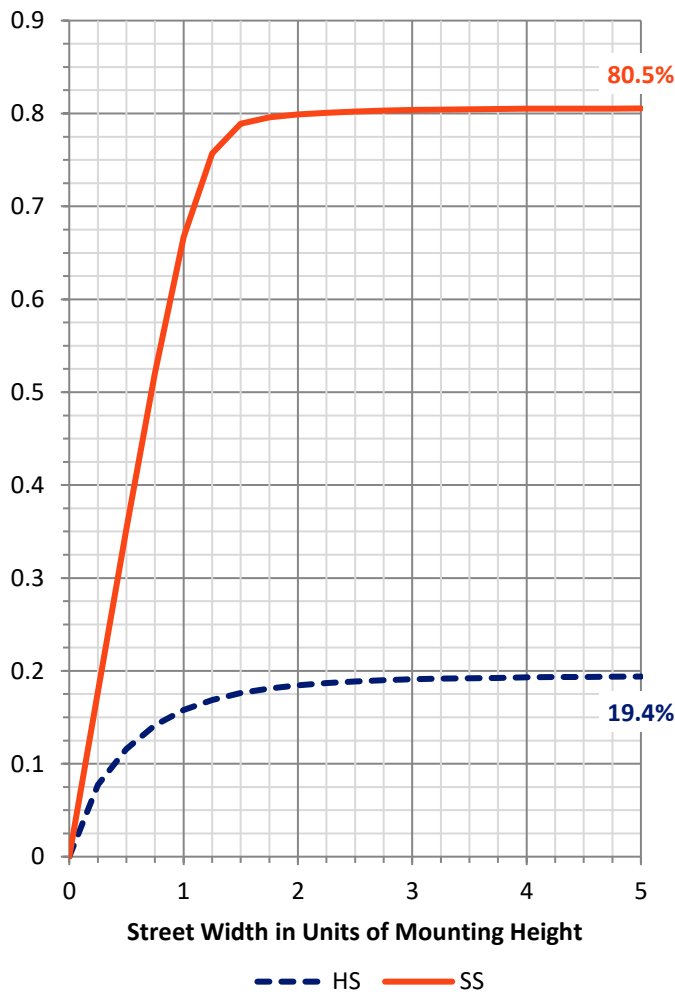
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2893.0	0.0	2893.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	11955.1	0.0	11955.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	14848.1	0.0	14848.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.5	2.8
10°-20°	1071.9	7.2
20°-30°	1742.9	11.7
30°-40°	2762.1	18.6
40°-50°	4165.9	28.1
50°-60°	3603.8	24.3
60°-70°	817.0	5.5
70°-80°	240.9	1.6
80°-90°	31.0	0.2
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°	14848.1	100.0
0°-180°	14848.1	100.0

Coefficient of Utilization



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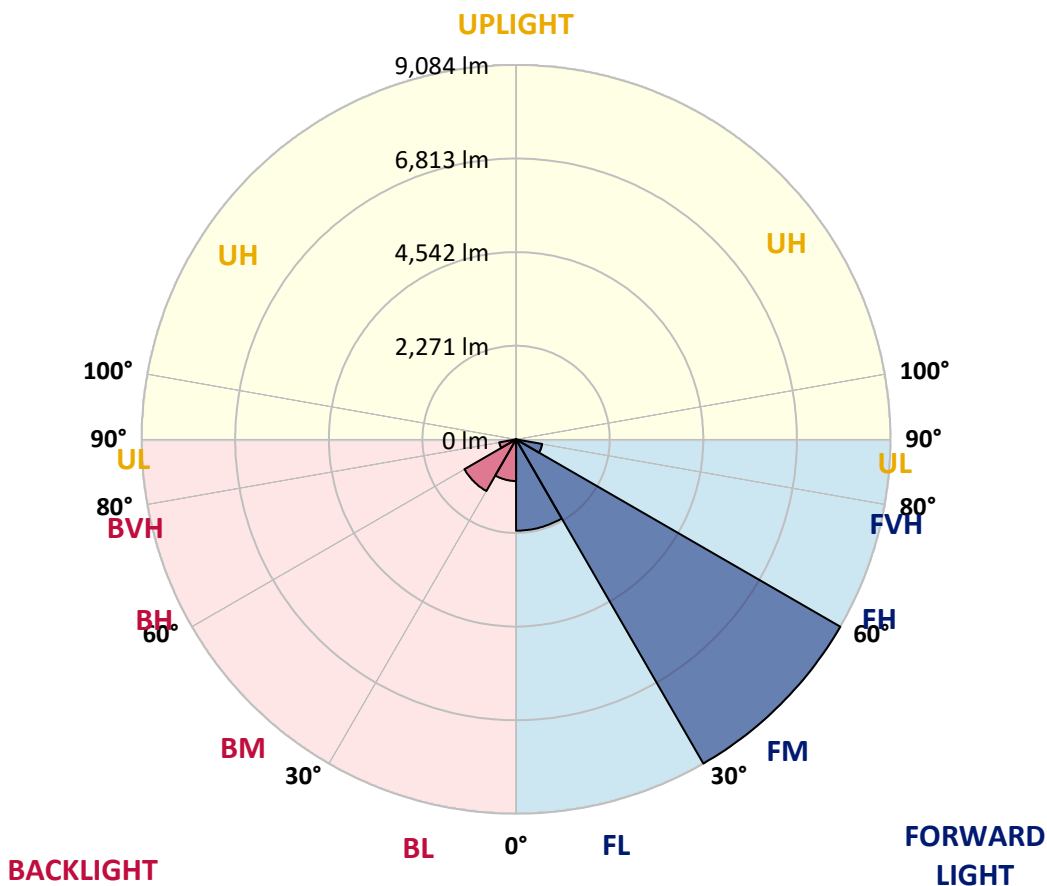
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2216.1	14.9			
FM (30°-60°)	9084.3	61.2			
FH (60°-80°)	643.0	4.3			G0/660
FVH (80°-90°)	11.7	0.1			G1/100
BL (0°-30°)	1011.3	6.8	B3/2500		
BM (30°-60°)	1447.5	9.7	B2/2500		
BH (60°-80°)	414.9	2.8	B1/500		G1/500
BVH (80°-90°)	19.3	0.1			G1/100
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°	45°	51°	55°	65°	75°	85°
0°	4421.0	4421.0	4421.0	4421.0	4421.0	4421.0	4421.0	4421.0	4421.0	4421.0	4421.0
2.5°	4926.7	4954.9	4911.5	4895.0	4868.1	4821.1	4767.1	4751.9	4635.7	4559.5	4473.8
5°	5421.9	5437.1	5401.9	5366.7	5299.8	5216.5	5112.1	5089.8	4878.6	4703.8	4521.9
7.5°	5532.1	5526.3	5556.8	5576.7	5568.5	5535.7	5443.0	5399.6	5147.3	4870.4	4601.7
10°	5095.7	5062.8	5175.5	5309.2	5470.0	5655.3	5644.8	5641.3	5421.9	5094.5	4703.8
12.5°	4517.2	4500.8	4592.3	4760.1	5064.0	5474.6	5628.4	5748.0	5669.4	5308.0	4817.6
15°	4186.4	4180.5	4242.7	4363.5	4605.2	5123.8	5452.4	5689.4	5881.8	5536.8	4938.4
17.5°	4126.5	4130.0	4151.2	4220.4	4394.0	4821.1	5201.3	5532.1	6047.2	5787.9	5089.8
20°	4301.3	4324.8	4288.4	4299.0	4392.9	4712.0	5030.0	5373.7	6152.8	6040.2	5252.9
22.5°	4689.7	4681.5	4601.7	4554.8	4556.0	4778.9	5011.2	5299.8	6222.0	6285.4	5400.7
25°	5129.7	5120.3	5025.3	4920.8	4855.1	4960.7	5146.1	5378.4	6284.2	6509.5	5519.2
27.5°	5649.5	5620.1	5514.5	5380.8	5235.3	5281.1	5406.6	5590.8	6380.4	6730.1	5597.8
30°	6152.8	6186.8	6035.5	5877.1	5723.4	5695.2	5768.0	5934.6	6576.4	6988.2	5691.7
32.5°	6820.4	6808.7	6640.9	6434.4	6215.0	6193.9	6251.4	6403.9	6928.4	7344.9	5834.9
35°	7628.8	7631.2	7393.0	7113.8	6801.7	6745.3	6841.6	6989.4	7452.8	7828.3	6061.3
37.5°	8468.9	8465.4	8257.7	7940.9	7515.0	7435.2	7545.5	7655.8	8108.7	8486.5	6413.3
40°	9057.9	9081.4	8984.0	8817.4	8413.8	8219.0	8316.4	8392.7	8822.1	9260.9	6876.8
42.5°	9392.3	9427.5	9448.6	9548.4	9336.0	9128.3	9093.1	9133.0	9459.2	9980.1	7312.0
45°	9463.9	9510.8	9664.5	10034.1	10116.3	10057.6	9942.6	9846.4	9934.4	10490.5	7597.2
47.5°	9148.3	9230.4	9558.9	10205.4	10685.3	10869.5	10741.6	10595.0	10208.9	10621.9	7567.8
50°	7897.5	7993.7	8734.1	9855.8	10766.3	11437.4	11449.1	11232.1	10176.1	10243.0	7199.4
52.5°	6252.6	6318.3	6741.8	8355.1	9971.9	11413.9	11883.3	11650.9	10017.7	9769.0	6738.3
55°	3737.0	3842.6	4238.0	5512.2	7768.5	10116.3	11115.9	11228.5	9940.3	9371.2	6423.9
57.5°	1261.3	1312.9	1690.7	2434.6	4578.2	7407.1	8588.6	9046.2	9023.9	8763.4	5810.2
60°	600.7	612.5	688.7	923.4	1832.7	3870.7	5083.9	5611.9	6093.0	6141.1	3615.0
62.5°	457.6	464.6	503.3	553.8	736.8	1630.9	2330.2	2733.8	2920.4	2506.2	1316.5
65°	382.5	388.4	417.7	449.4	501.0	706.3	894.1	1031.3	929.3	723.9	627.7
67.5°	319.1	323.8	346.1	380.2	415.4	472.8	496.3	510.4	535.0	600.7	577.3
70°	249.9	254.6	278.1	307.4	341.4	355.5	377.8	391.9	441.2	525.6	523.3
72.5°	192.4	198.3	211.2	230.0	258.1	272.2	296.8	313.3	341.4	409.5	437.6
75°	140.8	144.3	156.0	161.9	165.4	161.9	186.6	205.3	242.9	268.7	275.7
77.5°	57.5	64.5	62.2	62.2	73.9	89.2	102.1	113.8	139.6	154.9	156.0
80°	23.5	25.8	30.5	34.0	41.1	52.8	61.0	65.7	77.4	86.8	93.9
82.5°	14.1	15.3	17.6	18.8	23.5	30.5	35.2	38.7	48.1	57.5	61.0
85°	7.0	7.0	8.2	9.4	11.7	14.1	16.4	18.8	24.6	30.5	34.0
87.5°	1.2	1.2	1.2	2.3	3.5	4.7	5.9	7.0	8.2	9.4	11.7
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°	4421.0	4421.0	4421.0	4421.0	4421.0	4421.0	4421.0	4421.0	4421.0	4421.0	4421.0
2.5°	4423.4	4360.0	4286.1	4227.4	4159.4	4108.9	4037.3	3992.8	3950.5	3915.3	3889.5
5°	4428.1	4321.3	4167.6	4031.5	3890.7	3756.9	3619.7	3508.2	3408.5	3325.2	3318.1
7.5°	4455.0	4301.3	4060.8	3822.6	3548.1	3282.9	3017.7	2801.9	2637.6	2551.9	2534.3
10°	4500.8	4299.0	3951.7	3571.5	3103.4	2676.3	2361.9	2197.6	2102.6	2068.5	2056.8
12.5°	4548.9	4293.1	3812.1	3217.2	2567.2	2192.9	2020.4	2000.5	2018.1	2020.4	2019.3
15°	4607.6	4289.6	3636.1	2801.9	2175.3	1968.8	1980.5	2022.8	2063.8	2073.2	2073.2
17.5°	4679.1	4281.4	3396.7	2395.9	1930.1	1925.4	1987.6	2043.9	2082.6	2089.7	2089.7
20°	4754.2	4260.3	3102.2	2065.0	1830.4	1898.4	1965.3	2008.7	2035.7	2045.1	2046.2
22.5°	4805.9	4204.0	2763.1	1819.8	1768.2	1846.8	1894.9	1939.5	1939.5	1916.0	1909.0
25°	4816.4	4083.1	2395.9	1652.0	1694.3	1767.0	1816.3	1790.5	1742.4	1723.6	1722.4
27.5°	4777.7	3907.1	2033.3	1532.3	1605.1	1677.8	1669.6	1632.1	1611.0	1592.2	1599.2
30°	4730.8	3695.9	1718.9	1433.8	1501.8	1573.4	1545.2	1532.3	1517.1	1496.0	1500.7
32.5°	4699.1	3460.1	1477.2	1357.5	1432.6	1444.3	1464.3	1463.1	1449.0	1409.1	1406.8
35°	4708.5	3221.9	1315.3	1295.3	1375.1	1370.4	1408.0	1400.9	1303.5	1248.4	1244.9
37.5°	4783.6	2993.1	1220.2	1246.1	1283.6	1312.9	1345.8	1261.3	1227.3	1192.1	1194.4
40°	4926.7	2780.7	1168.6	1219.1	1228.5	1271.9	1195.6	1194.4	1179.2	1147.5	1146.3
42.5°	5088.6	2601.2	1133.4	1206.2	1193.3	1201.5	1120.5	1129.9	1128.7	1108.8	1102.9
45°	5187.2	2435.8	1105.3	1158.1	1161.6	1079.4	1054.8	1065.4	1071.2	1060.7	1059.5
47.5°	5085.1	2245.7	1075.9	1084.1	1114.6	1024.3	993.8	995.0	1005.5	1006.7	1002.0
50°	4798.8	2033.3	1040.7	1020.8	1000.8	966.8	938.6	932.8	943.3	953.9	957.4
52.5°	4429.2	1830.4	982.1	951.6	904.6	904.6	891.7	872.9	887.0	901.1	905.8
55°	4158.2	1680.2	898.8	864.7	813.1	830.7	828.4	811.9	830.7	841.3	844.8
57.5°	3603.2	1350.5	790.8	780.2	736.8	758.0	762.6	741.5	732.1	734.5	738.0
60°	2138.9	871.8	713.4	712.2	673.5	698.1	712.2	691.1	662.9	666.4	671.1
62.5°	959.8	666.4	616.0	611.3	610.1	641.8	657.1	637.1	597.2	600.7	605.4
65°	604.3	576.1	535.0	535.0	553.8	580.8	592.5	576.1	530.3	524.5	529.2
67.5°	560.8	536.2	494.0	485.7	495.1	517.4	518.6	486.9	459.9	455.2	455.2
70°	503.3	484.6	443.5	427.1	423.6	422.4	418.9	410.7	393.1	388.4	390.7
72.5°	416.5	403.6	377.8	360.2	350.8	349.6	335.6	328.5	313.3	310.9	309.8
75°	275.7	279.2	279.2	276.9	268.7	265.2	249.9	242.9	225.3	218.2	217.1
77.5°	163.1	166.6	171.3	172.5	171.3	171.3	157.2	149.0	131.4	122.0	119.7
80°	99.7	102.1	104.4	107.9	103.3	99.7	86.8	78.6	70.4	64.5	63.4
82.5°	64.5	66.9	68.1	70.4	68.1	63.4	52.8	48.1	42.2	37.5	36.4
85°	36.4	37.5	39.9	39.9	36.4	32.9	27.0	23.5	19.9	17.6	17.6
87.5°	12.9	12.9	12.9	14.1	11.7	10.6	7.0	4.7	3.5	3.5	3.5
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)