

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: P633927

Luminaire Tested: GWS-SA2F-760-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-760-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10971.5 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

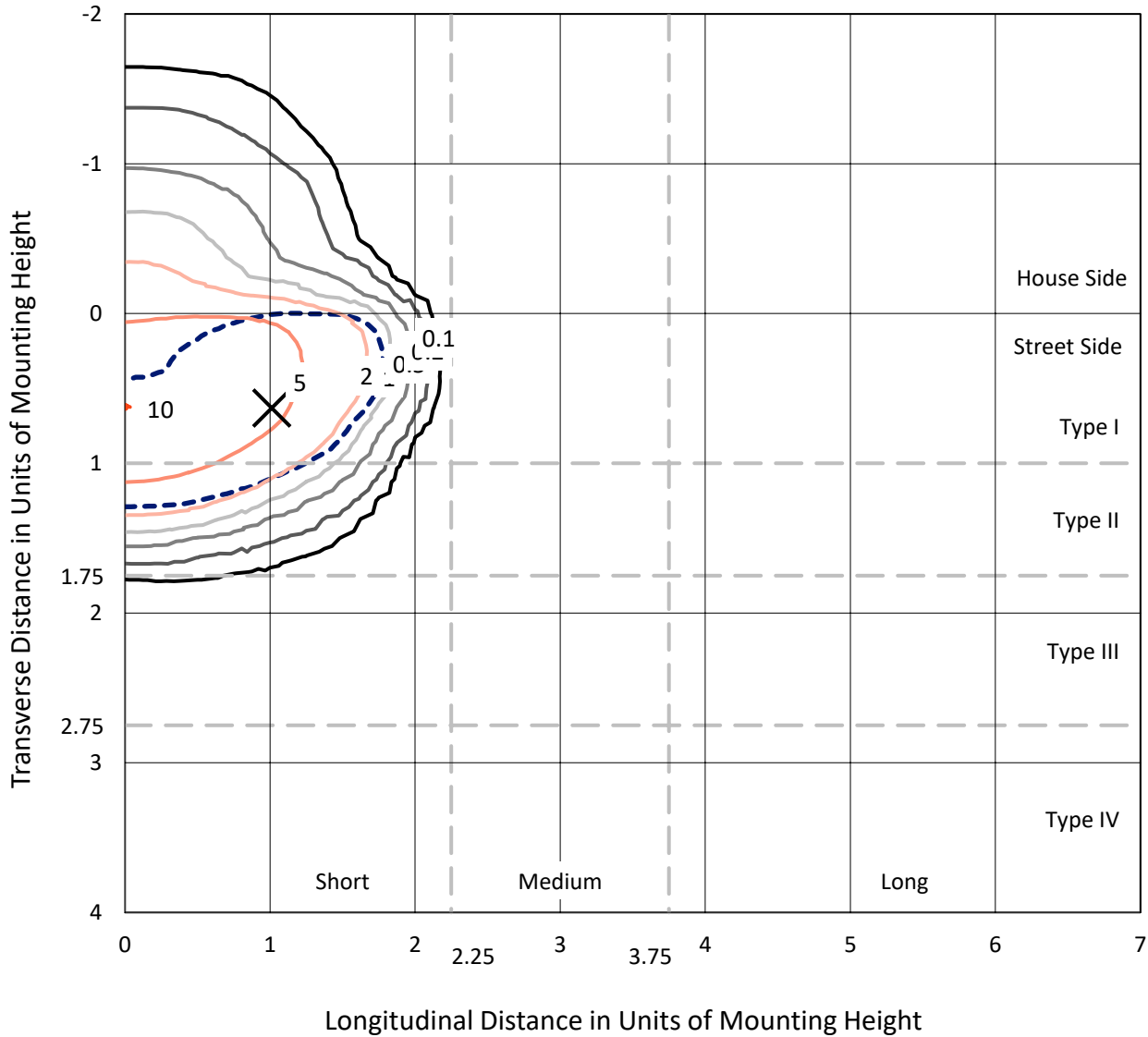
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

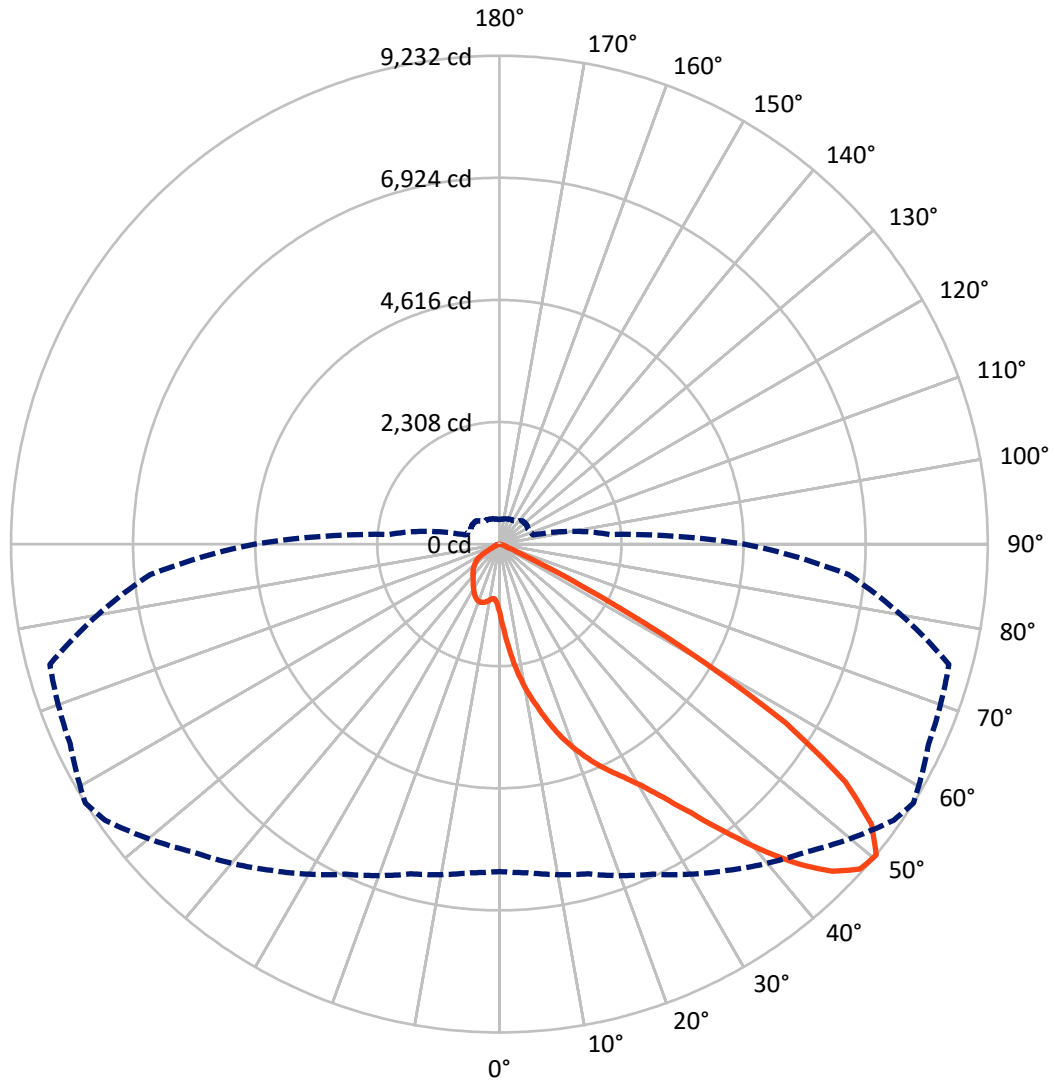
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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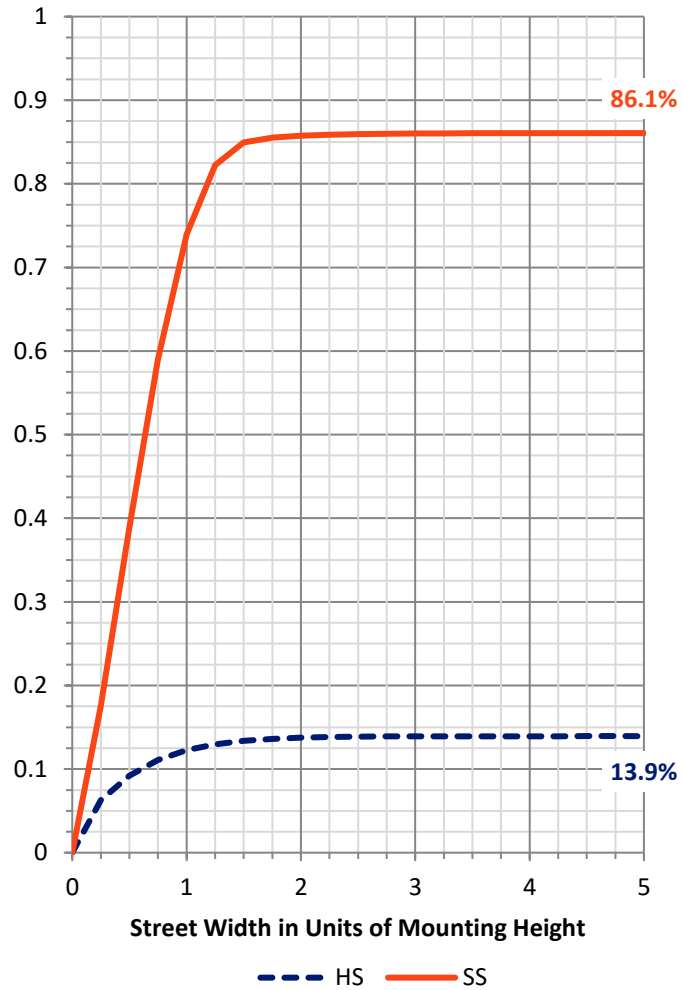
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1536.7	0.0	1536.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	9434.8	0.0	9434.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	10971.5	0.0	10971.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	1.5
10°-20°	642.7	5.9
20°-30°	1300.6	11.9
30°-40°	2300.8	21.0
40°-50°	3354.1	30.6
50°-60°	2688.4	24.5
60°-70°	484.3	4.4
70°-80°	38.2	0.3
80°-90°	0.0	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°	10971.5	100.0
0°-180°	10971.5	100.0

Coefficient of Utilization



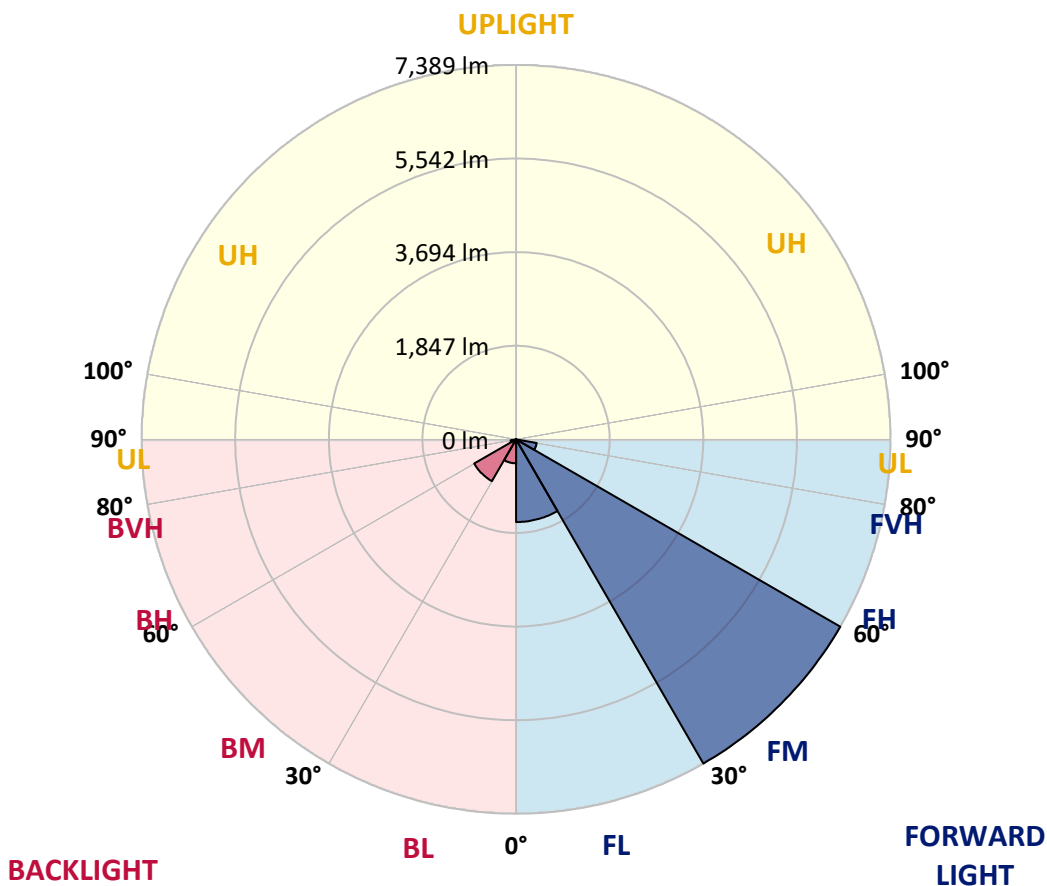
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1632.5	14.9			
FM (30°-60°)	7389.0	67.3			
FH (60°-80°)	413.3	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	473.1	4.3	B1/500		
BM (30°-60°)	954.4	8.7	B1/1000		
BH (60°-80°)	109.2	1.0	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5
2.5°	1939.4	1908.9	1891.3	1877.2	1815.0	1716.5	1651.9	1617.9	1561.6	1466.6	1384.4
5°	2530.7	2508.4	2467.4	2439.2	2359.4	2219.8	2075.5	2018.0	1890.1	1675.4	1483.0
7.5°	2922.6	2906.2	2890.9	2853.4	2778.3	2651.6	2492.0	2432.2	2235.1	1930.0	1614.4
10°	3224.1	3211.2	3193.6	3192.4	3133.8	3020.0	2863.9	2801.7	2588.2	2206.9	1769.3
12.5°	3489.3	3478.7	3475.2	3508.0	3470.5	3386.0	3217.1	3139.6	2913.2	2489.6	1940.6
15°	3671.1	3668.8	3684.0	3748.6	3769.7	3731.0	3589.0	3505.7	3245.2	2773.6	2129.5
17.5°	3754.4	3761.5	3790.8	3902.2	3996.1	4029.0	3919.8	3849.5	3574.9	3061.0	2331.3
20°	3896.4	3894.0	3911.6	4017.2	4132.2	4249.5	4216.7	4156.8	3908.1	3364.9	2555.4
22.5°	4296.5	4262.4	4224.9	4241.3	4282.4	4419.7	4480.7	4450.2	4251.9	3677.0	2786.5
25°	4911.2	4876.1	4755.2	4637.9	4560.4	4622.6	4705.9	4721.2	4593.3	3997.3	3028.2
27.5°	5563.6	5531.9	5395.8	5219.8	4998.1	4890.1	4952.3	4982.8	4928.8	4378.6	3285.1
30°	6174.8	6132.6	5983.6	5765.4	5508.4	5343.0	5272.6	5293.7	5325.4	4830.3	3586.6
32.5°	6705.2	6673.5	6495.1	6265.2	6017.6	5845.2	5680.9	5716.1	5793.5	5382.9	3972.6
35°	7154.5	7138.1	6949.2	6720.4	6458.8	6370.8	6230.0	6237.0	6314.5	6050.5	4443.1
37.5°	7545.2	7517.1	7345.8	7133.4	6925.7	6911.7	6872.9	6876.5	6916.3	6828.3	4984.0
40°	7791.6	7765.8	7643.8	7512.4	7364.5	7366.9	7567.5	7582.8	7537.0	7592.1	5555.4
42.5°	7884.3	7865.5	7799.8	7801.0	7785.7	7854.9	8231.6	8259.7	8095.5	8191.7	6043.4
45°	7723.5	7715.3	7720.0	7889.0	8072.0	8285.5	8774.8	8824.1	8591.8	8589.4	6424.7
47.5°	7205.0	7188.5	7325.8	7613.3	8036.8	8452.1	9103.3	9179.6	8939.0	8817.0	6664.1
50°	6188.9	6235.9	6452.9	6884.7	7528.8	8223.4	9099.8	9232.4	8951.9	8797.1	6624.2
52.5°	4483.0	4473.6	4948.8	5542.5	6326.2	7491.2	8616.4	8810.0	8638.7	8601.1	6535.0
55°	2439.2	2524.8	2845.1	3631.2	4609.7	6105.6	7512.4	7934.7	8133.0	8529.6	6695.8
57.5°	896.4	933.9	1134.5	1690.7	2440.4	3796.7	5738.4	6375.5	6987.9	8330.1	6668.8
60°	361.4	368.4	448.2	621.8	1025.4	1932.4	3442.3	4007.8	4585.1	6376.6	5117.7
62.5°	262.8	272.2	303.9	363.7	518.6	844.7	1484.2	1725.9	1886.6	3158.4	2521.3
65°	212.4	219.4	245.2	272.2	342.6	454.1	478.7	461.1	458.7	816.6	578.4
67.5°	176.0	183.0	201.8	220.6	246.4	226.4	164.3	172.5	140.8	139.6	113.8
70°	129.1	137.3	156.0	176.0	147.8	61.0	95.0	140.8	106.8	89.2	86.8
72.5°	97.4	103.2	120.8	115.0	43.4	23.5	63.4	102.1	82.1	65.7	64.5
75°	72.7	76.3	61.0	18.8	4.7	5.9	23.5	42.2	45.8	37.5	37.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	3.5	4.7	5.9	7.0
80°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5
2.5°	1337.5	1288.2	1217.8	1159.2	1114.6	1071.2	1038.3	1005.5	1004.3	987.9	984.4
5°	1393.8	1304.7	1175.6	1082.9	1026.6	992.6	969.1	957.4	951.5	945.6	943.3
7.5°	1474.8	1346.9	1168.6	1070.0	1023.1	1000.8	984.4	977.3	973.8	969.1	967.9
10°	1574.5	1407.9	1194.4	1094.6	1053.6	1032.5	1014.9	1004.3	998.4	990.2	987.9
12.5°	1694.2	1483.0	1235.4	1135.7	1092.3	1064.1	1040.7	1025.4	1017.2	1006.7	1004.3
15°	1823.2	1564.0	1281.2	1173.3	1121.6	1085.3	1055.9	1032.5	1017.2	1004.3	1000.8
17.5°	1957.0	1646.1	1322.3	1199.1	1135.7	1092.3	1050.1	1018.4	999.6	983.2	978.5
20°	2107.2	1730.6	1349.2	1203.8	1131.0	1073.5	1024.3	984.4	965.6	943.3	938.6
22.5°	2264.4	1809.2	1361.0	1193.2	1105.2	1038.3	985.5	944.5	917.5	894.0	887.0
25°	2416.9	1879.6	1355.1	1163.9	1066.5	989.1	935.1	892.8	863.5	840.1	834.2
27.5°	2578.8	1938.2	1334.0	1120.5	1013.7	935.1	883.5	847.1	820.1	794.3	788.4
30°	2760.7	1992.2	1300.0	1067.7	951.5	879.9	840.1	815.4	786.1	759.1	750.9
32.5°	2980.1	2040.3	1250.7	1004.3	896.4	831.8	809.5	790.8	756.8	728.6	722.7
35°	3231.1	2080.2	1188.5	938.6	842.4	801.3	796.6	772.0	727.4	694.6	687.5
37.5°	3522.1	2118.9	1114.6	874.1	802.5	787.3	788.4	746.2	692.2	652.3	647.6
40°	3835.4	2157.6	1032.5	817.8	766.1	779.0	768.5	708.6	620.7	581.9	577.2
42.5°	4161.5	2199.9	949.2	765.0	735.6	747.4	732.1	633.6	570.2	550.3	547.9
45°	4456.0	2250.3	858.8	712.2	705.1	701.6	675.8	573.7	546.7	532.7	531.5
47.5°	4668.4	2242.1	762.6	661.7	672.3	660.5	581.9	545.6	523.3	504.5	499.8
50°	4629.7	2099.0	662.9	605.4	630.0	619.5	523.3	512.7	492.8	472.8	465.8
52.5°	4531.1	1904.2	576.1	545.6	584.3	559.6	483.4	472.8	455.2	429.4	421.2
55°	4583.9	1721.2	508.0	497.5	537.4	463.4	438.8	422.4	403.6	375.4	371.9
57.5°	4413.8	1404.4	408.3	415.3	475.2	395.4	384.8	359.0	327.3	308.6	306.2
60°	3055.2	754.4	255.8	264.0	343.8	332.0	344.9	321.5	282.8	265.2	261.6
62.5°	1403.2	302.7	139.6	133.8	180.7	225.3	295.7	293.3	245.2	217.1	214.7
65°	340.2	138.4	99.7	93.9	102.1	134.9	192.4	231.1	198.3	165.4	161.9
67.5°	110.3	112.6	91.5	85.6	90.3	100.9	115.0	127.9	126.7	116.2	113.8
70°	88.0	102.1	84.5	77.4	77.4	81.0	77.4	62.2	54.0	58.7	61.0
72.5°	65.7	77.4	66.9	59.8	57.5	56.3	48.1	35.2	24.6	22.3	21.1
75°	38.7	43.4	41.1	35.2	32.9	29.3	23.5	15.3	8.2	5.9	3.5
77.5°	7.0	8.2	9.4	7.0	5.9	4.7	3.5	1.2	0.0	0.0	0.0
80°	0.0	1.2	1.2	1.2	0.0	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)