

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: P631052

Luminaire Tested: GWS-SA1E-830-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-830-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4742.9 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

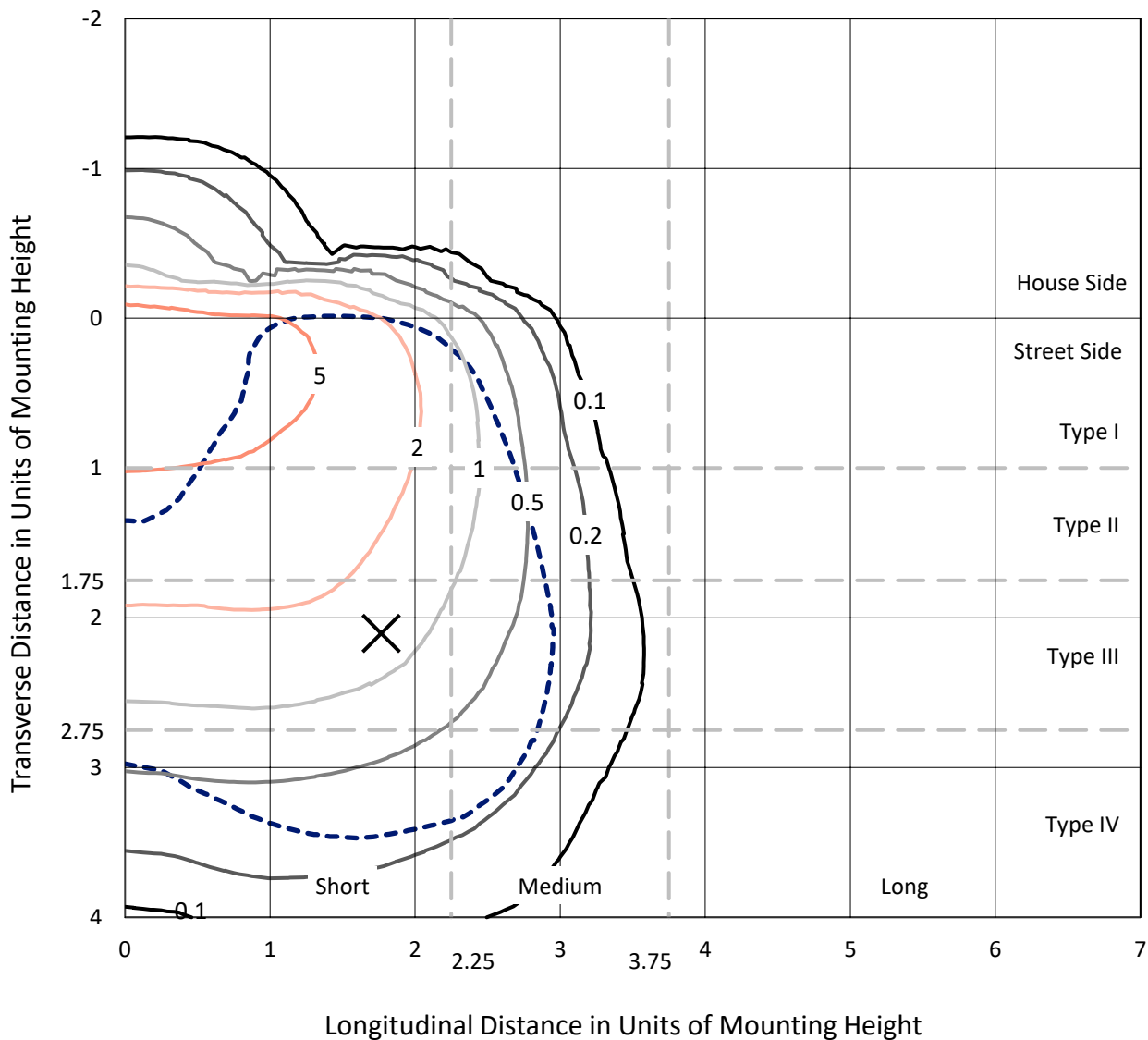
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

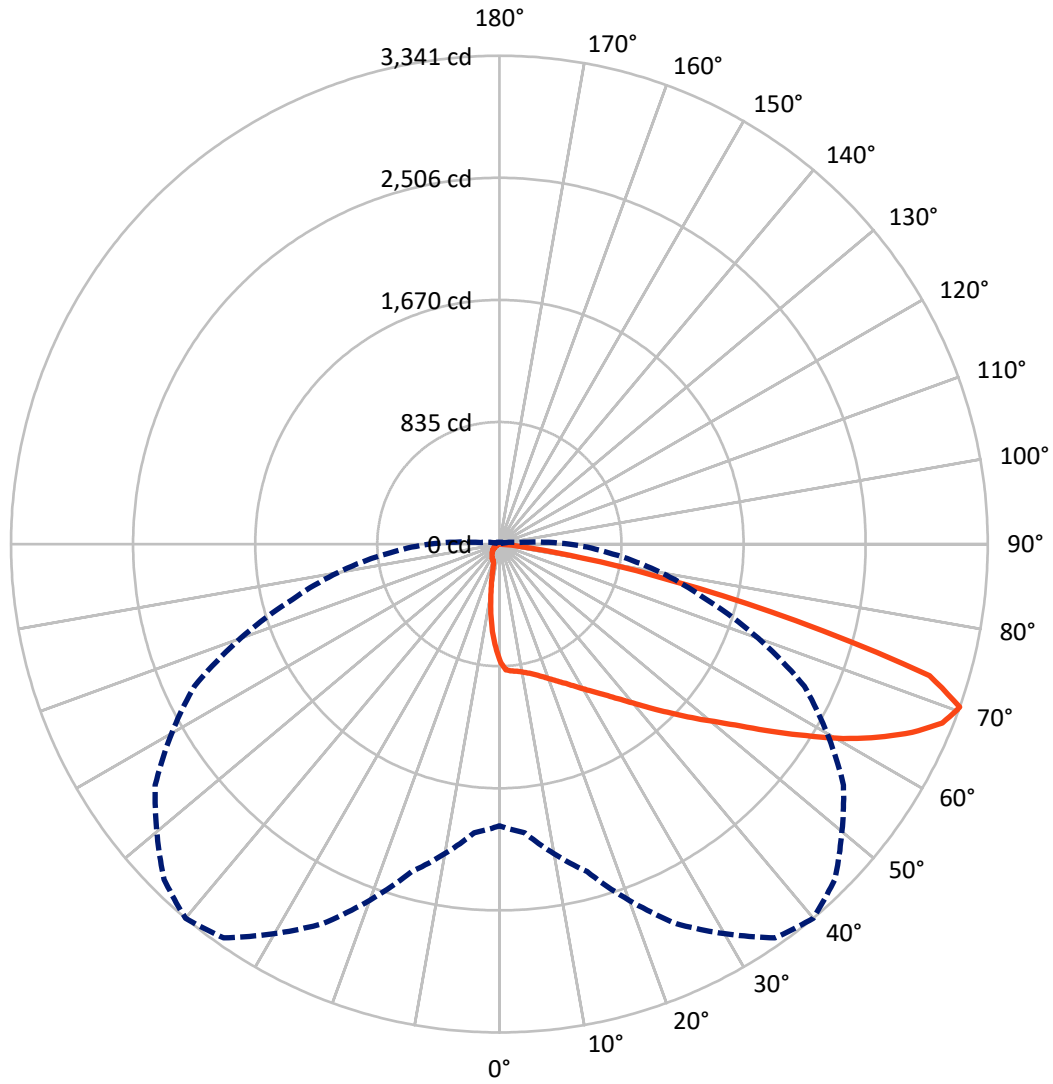
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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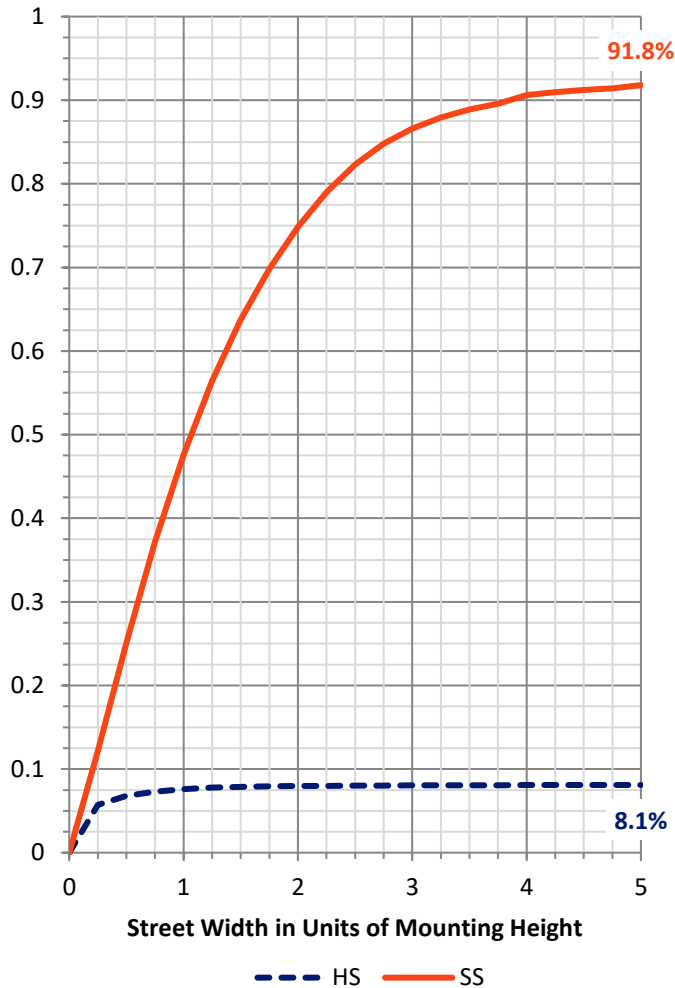
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	387.8	0.0	387.8
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	4355.1	0.0	4355.1
	% Fixture	91.8	0.0	91.8
Total	Lumens	4742.9	0.0	4742.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	1.4
10°-20°	172.5	3.6
20°-30°	288.7	6.1
30°-40°	453.5	9.6
40°-50°	717.3	15.1
50°-60°	1046.4	22.1
60°-70°	1297.2	27.4
70°-80°	656.3	13.8
80°-90°	42.9	0.9
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°	4742.9	100.0
0°-180°	4742.9	100.0

Coefficient of Utilization



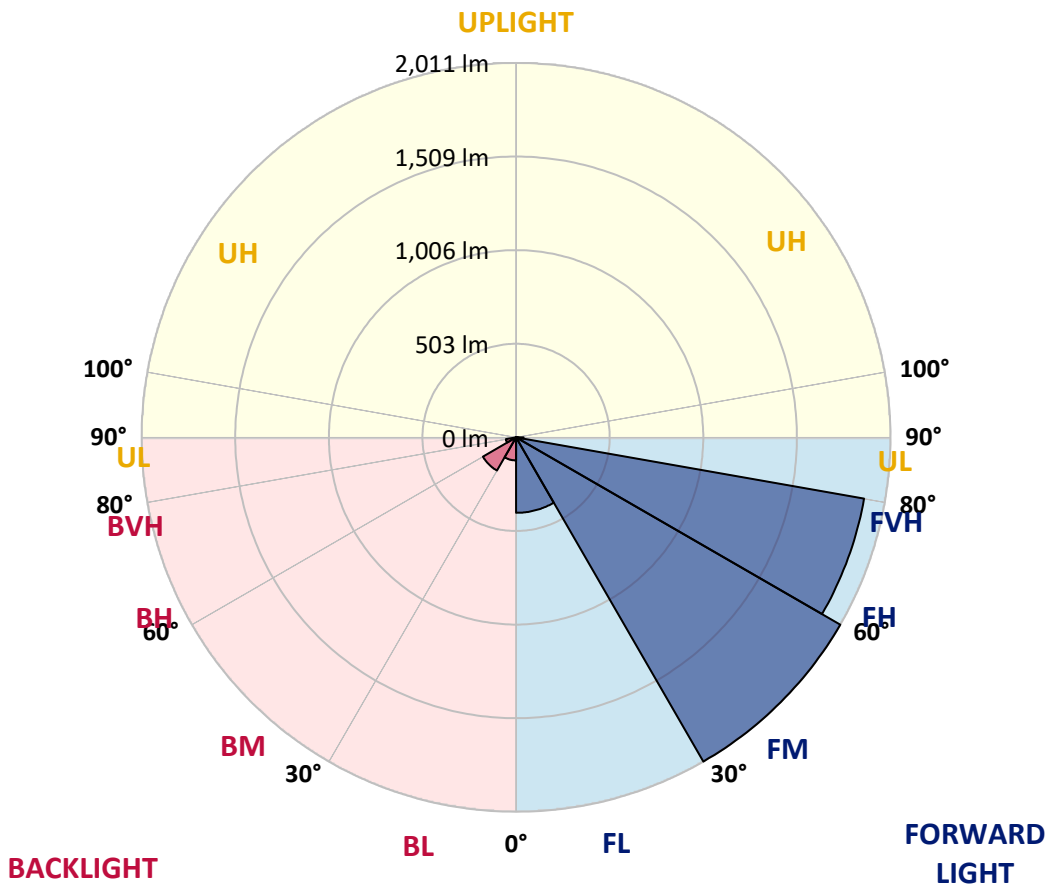
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	405.4	8.5			
FM (30°-60°)	2011.4	42.4			
FH (60°-80°)	1898.2	40.0			G2/5000
FVH (80°-90°)	40.0	0.8			G1/100
BL (0°-30°)	123.9	2.6	B1/500		
BM (30°-60°)	205.9	4.3	B0/220		
BH (60°-80°)	55.3	1.2	B0/110		G0/110
BVH (80°-90°)	2.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8
2.5°	865.2	868.2	867.8	869.1	866.1	861.3	860.5	854.0	842.4	827.7	811.3
5°	882.9	886.4	883.8	882.5	876.9	871.7	870.4	863.5	850.1	830.3	801.8
7.5°	898.0	898.9	897.2	894.1	885.9	879.0	874.3	864.8	848.8	829.0	796.2
10°	900.6	900.2	901.0	901.5	896.3	890.3	886.4	873.4	853.1	832.0	796.6
12.5°	897.6	897.6	903.2	909.7	909.7	906.7	902.8	891.1	867.4	842.4	805.2
15°	901.5	902.8	913.6	925.6	929.5	926.5	924.8	912.7	888.1	860.5	820.8
17.5°	915.3	916.6	933.8	952.0	956.7	953.3	949.8	937.7	911.4	881.2	838.5
20°	935.6	939.0	961.0	984.3	988.6	984.3	977.4	960.6	934.3	903.6	855.3
22.5°	972.7	974.8	998.6	1023.2	1025.3	1018.4	1008.1	984.8	957.1	927.4	874.3
25°	1021.9	1024.9	1048.6	1072.4	1066.8	1056.4	1042.2	1015.8	984.3	955.4	898.5
27.5°	1080.6	1084.0	1107.3	1128.0	1113.4	1101.3	1085.3	1052.5	1020.6	994.3	929.5
30°	1144.0	1147.0	1167.7	1186.3	1166.9	1152.6	1133.6	1100.0	1067.6	1047.8	973.5
32.5°	1205.3	1204.8	1224.7	1239.8	1220.0	1208.7	1191.5	1157.4	1131.5	1122.9	1039.1
35°	1262.2	1262.2	1278.6	1293.7	1279.5	1273.5	1257.5	1230.3	1215.6	1226.0	1126.7
37.5°	1319.6	1316.6	1332.1	1349.0	1347.7	1348.1	1339.1	1326.1	1327.0	1363.7	1247.1
40°	1367.1	1365.8	1383.9	1405.9	1423.2	1437.0	1431.4	1436.1	1463.3	1532.0	1401.2
42.5°	1405.1	1408.1	1431.4	1466.4	1509.9	1538.0	1541.9	1561.3	1631.2	1737.4	1575.1
45°	1448.7	1449.1	1481.5	1535.0	1604.4	1648.9	1664.4	1714.5	1813.7	1950.5	1765.8
47.5°	1502.2	1497.0	1533.2	1608.3	1708.9	1774.5	1802.1	1864.7	2018.3	2158.5	1921.2
50°	1561.3	1551.8	1592.8	1695.1	1825.8	1907.8	1963.9	2055.4	2221.1	2329.4	2036.8
52.5°	1629.9	1620.8	1667.5	1794.8	1966.1	2065.8	2137.8	2230.2	2395.0	2459.8	2105.9
55°	1717.1	1708.0	1757.2	1914.3	2131.8	2261.2	2336.8	2414.4	2556.8	2556.0	2156.0
57.5°	1813.7	1801.2	1869.4	2065.3	2338.5	2473.1	2549.9	2587.9	2679.8	2630.6	2189.6
60°	1924.6	1913.4	2007.9	2245.3	2577.1	2701.8	2750.2	2734.6	2780.8	2674.7	2178.0
62.5°	2024.8	2019.6	2137.0	2436.0	2804.5	2909.8	2923.2	2855.5	2855.0	2675.5	2099.4
65°	2128.8	2138.7	2313.0	2655.7	3033.3	3104.0	3081.2	2975.4	2884.8	2569.8	1867.3
67.5°	2167.6	2196.5	2429.1	2854.2	3213.6	3268.9	3228.7	3035.4	2761.0	2214.2	1421.9
70°	1927.7	1982.0	2319.5	2865.4	3288.3	3340.9	3244.7	2874.0	2301.8	1466.8	778.9
72.5°	1465.9	1529.4	1932.8	2346.3	2957.3	3077.3	2912.9	2341.5	1483.6	642.6	261.5
75°	820.3	889.0	1439.6	1766.7	1985.5	2095.1	2034.7	1502.2	657.2	167.9	78.1
77.5°	277.5	300.3	669.7	1093.1	1310.6	1212.2	1026.2	746.1	241.7	63.9	41.4
80°	164.4	173.0	249.4	544.2	689.6	571.8	451.4	275.8	123.0	34.1	28.9
82.5°	49.2	58.3	137.7	202.0	270.1	168.3	142.4	157.5	63.9	18.6	24.2
85°	0.0	0.0	29.3	62.6	70.8	27.6	27.6	89.3	11.7	7.8	17.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.2	1.3	1.7	3.9
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°	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8
2.5°	799.6	784.5	766.8	750.0	734.0	713.3	703.4	691.3	681.0	675.4	678.4
5°	783.7	759.9	723.7	687.0	649.9	614.9	583.4	562.3	543.3	533.4	535.5
7.5°	769.9	737.9	681.4	621.4	561.9	501.9	453.1	415.1	385.8	373.7	371.6
10°	763.8	723.7	643.9	557.5	466.1	385.4	316.3	274.5	244.7	230.0	232.6
12.5°	766.8	716.3	611.9	495.0	376.3	282.2	216.2	176.9	155.8	147.2	145.0
15°	775.5	714.6	583.4	431.1	290.4	197.2	149.3	133.3	129.0	128.2	128.2
17.5°	785.4	715.1	554.1	366.4	220.5	146.3	127.7	124.7	123.4	122.6	123.0
20°	795.3	715.1	520.4	300.8	165.7	126.4	121.7	119.5	118.2	117.8	117.8
22.5°	807.4	715.1	482.9	239.9	132.9	120.0	116.1	114.8	113.5	113.1	112.6
25°	822.1	715.5	441.5	187.7	120.8	114.4	111.3	110.0	108.7	107.9	107.9
27.5°	843.2	718.9	395.7	146.3	113.9	109.2	106.6	105.3	104.0	102.7	102.7
30°	873.9	727.6	344.4	120.8	107.5	103.6	101.0	100.1	98.8	97.5	97.1
32.5°	919.6	742.7	291.3	108.3	101.4	97.5	94.5	93.6	92.3	91.1	90.6
35°	983.5	770.3	239.5	100.5	93.6	89.8	88.0	87.6	85.9	84.6	84.6
37.5°	1077.1	815.2	189.9	92.8	87.2	84.1	82.0	81.1	79.4	78.1	77.7
40°	1191.5	873.4	147.6	86.7	81.1	78.1	76.0	74.7	72.5	70.8	69.9
42.5°	1337.3	944.6	116.5	80.3	75.5	72.5	70.8	68.2	65.2	62.6	62.1
45°	1489.2	1018.0	96.2	74.2	70.3	67.8	65.6	62.1	57.8	54.8	53.9
47.5°	1605.7	1063.7	84.1	67.8	64.7	62.6	60.0	55.7	50.5	47.0	46.2
50°	1689.0	1070.6	75.1	61.7	60.0	57.8	53.9	48.8	43.2	39.7	38.8
52.5°	1730.0	1039.6	67.8	56.1	54.8	52.6	47.9	42.3	36.2	32.8	31.9
55°	1748.6	980.9	60.8	51.4	49.6	47.0	41.9	35.8	29.8	26.8	25.9
57.5°	1741.2	894.1	54.8	46.6	44.4	41.4	35.8	29.3	24.6	21.6	21.1
60°	1686.9	772.4	48.8	41.9	39.3	35.8	30.2	24.2	19.9	17.7	17.3
62.5°	1569.5	621.4	42.7	36.2	34.5	31.1	25.9	19.9	16.4	15.1	14.7
65°	1329.1	439.3	36.7	30.6	29.8	26.3	21.6	16.4	14.2	13.4	12.9
67.5°	955.4	267.1	31.1	26.3	25.5	22.4	18.1	14.2	12.9	12.5	12.5
70°	480.3	126.4	24.6	21.6	21.6	18.6	15.5	12.9	12.5	12.1	12.1
72.5°	163.1	53.9	18.6	16.8	17.7	16.0	13.4	12.1	12.1	12.1	12.1
75°	55.7	28.5	12.9	12.1	12.9	12.9	11.7	11.7	12.1	12.1	12.1
77.5°	36.2	19.0	9.1	8.2	9.9	9.9	9.9	10.8	11.7	11.7	11.7
80°	29.8	10.4	6.0	5.6	7.3	7.3	8.2	9.9	10.8	10.8	10.8
82.5°	25.5	6.5	3.5	3.9	5.2	5.6	6.9	8.2	9.5	9.9	9.9
85°	17.3	3.5	2.6	3.0	3.5	4.3	5.6	6.9	7.8	8.6	8.6
87.5°	4.7	1.3	1.7	2.2	2.2	3.0	4.3	5.2	6.0	6.5	6.5
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)