

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: P633062

Luminaire Tested: GWS-SA2D-830-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-830-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9195.9 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

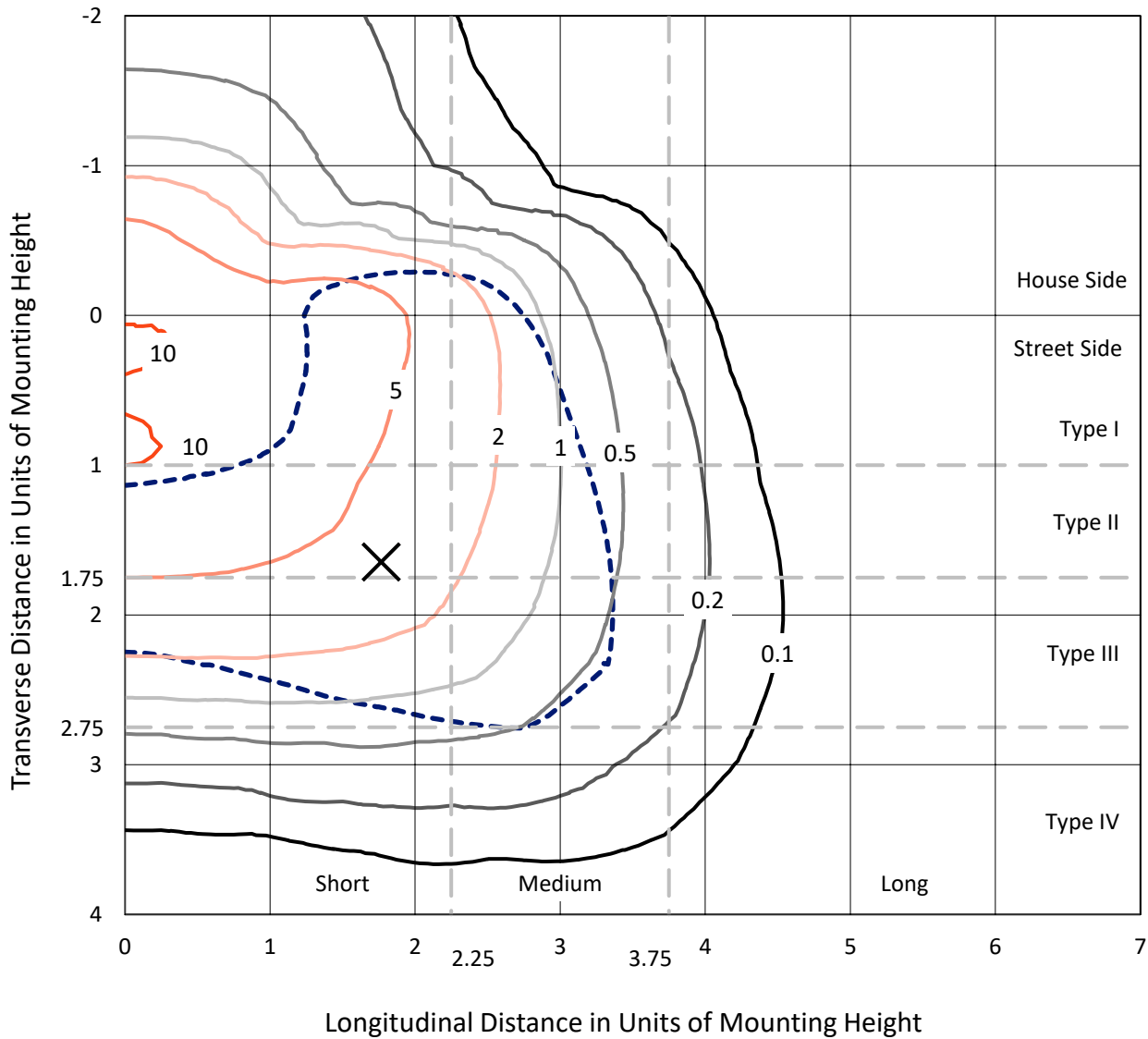
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

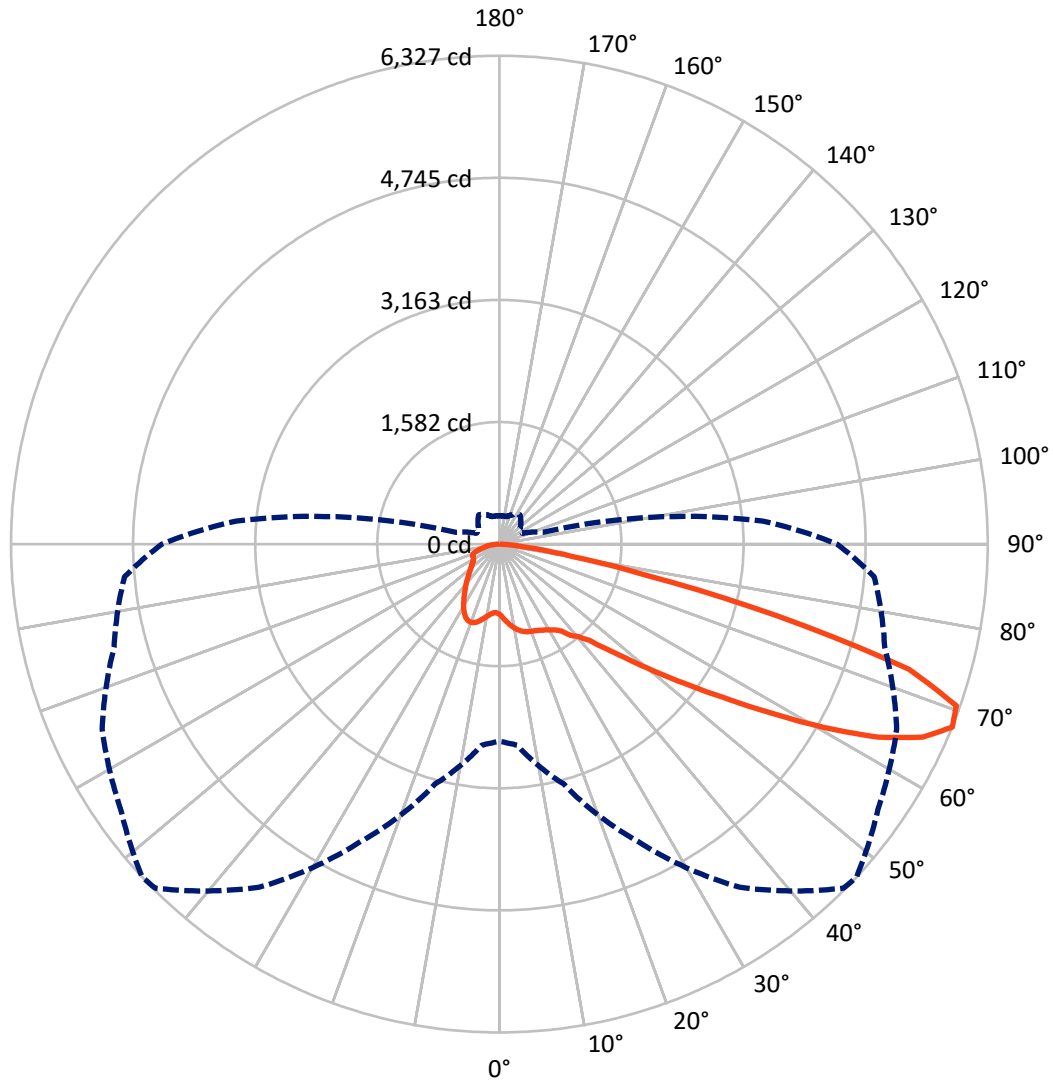
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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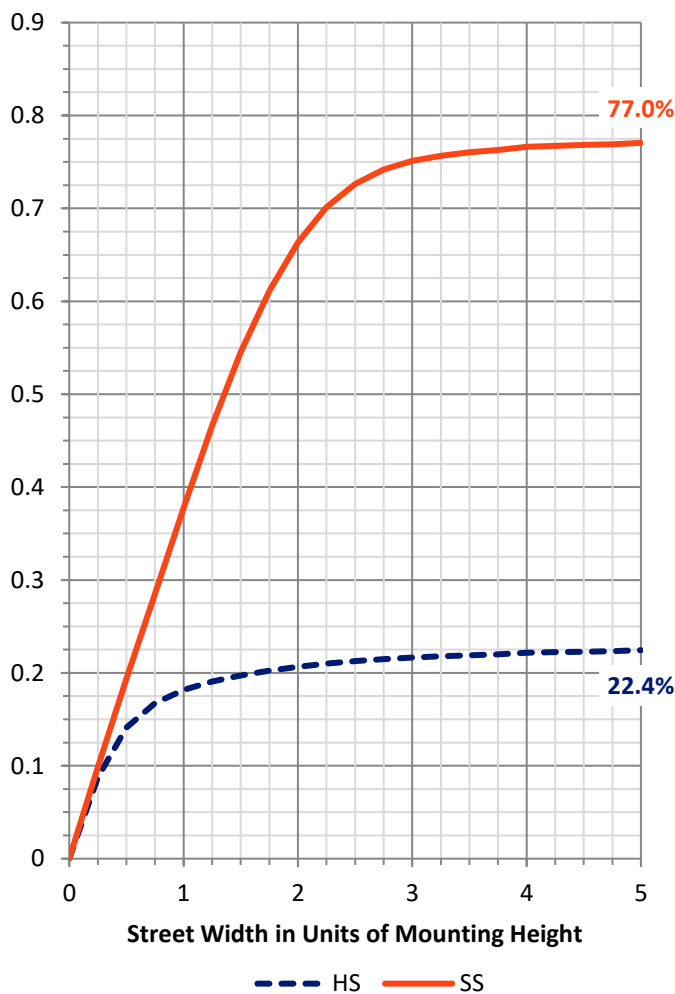
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2095.8	0.0	2095.8
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	7100.1	0.0	7100.1
	% Fixture	77.2	0.0	77.2
Total	Lumens	9195.9	0.0	9195.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	1.0
10°-20°	310.4	3.4
20°-30°	527.6	5.7
30°-40°	772.9	8.4
40°-50°	1177.6	12.8
50°-60°	2106.9	22.9
60°-70°	2811.4	30.6
70°-80°	1271.4	13.8
80°-90°	124.6	1.4
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°	9195.9	100.0
0°-180°	9195.9	100.0

Coefficient of Utilization



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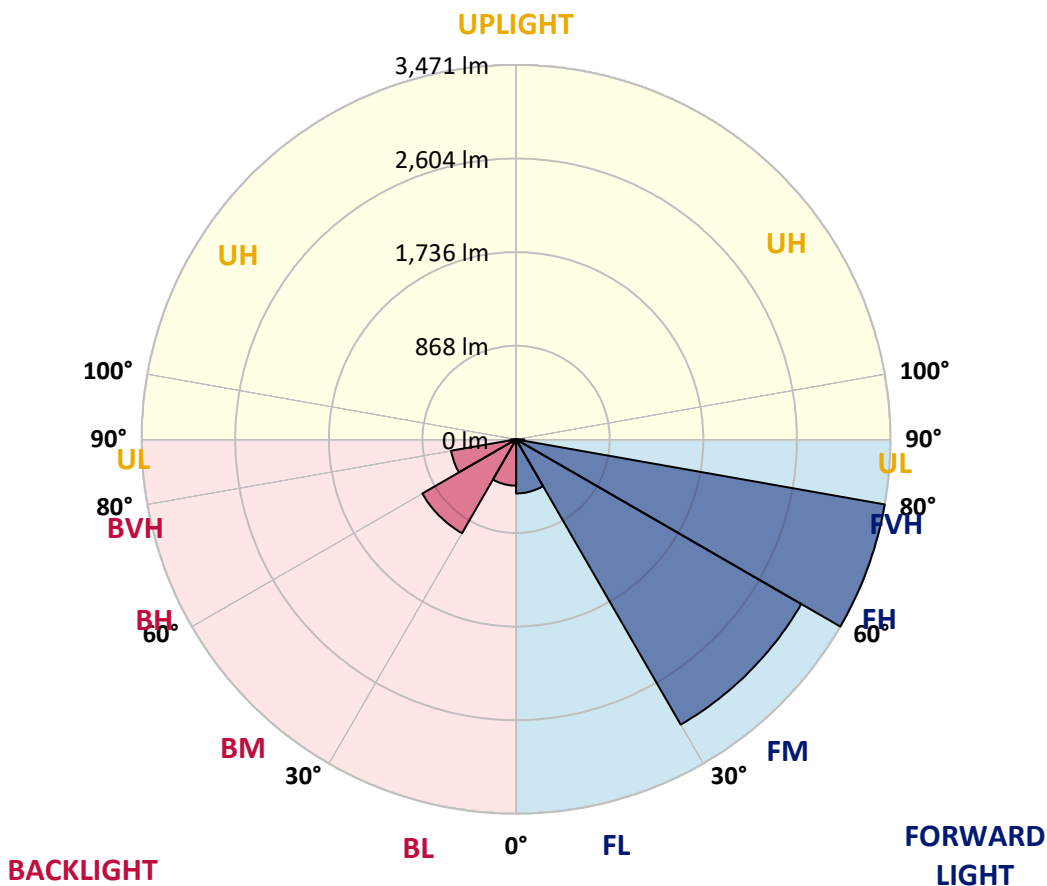
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	501.5	5.5			
FM (30°-60°)	3053.1	33.2			
FH (60°-80°)	3471.3	37.7			G2/5000
FVH (80°-90°)	74.1	0.8			G1/100
BL (0°-30°)	429.6	4.7	B1/500		
BM (30°-60°)	1004.2	10.9	B2/2500		
BH (60°-80°)	611.5	6.6	B2/1000		G2/1000
BVH (80°-90°)	50.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	911.6	911.6	911.6	911.6	911.6	911.6	911.6	911.6	911.6	911.6	911.6
2.5°	972.1	975.4	974.8	969.5	966.1	960.1	960.8	951.5	937.5	928.2	917.6
5°	1057.9	1063.2	1056.6	1047.9	1034.6	1015.3	1013.3	992.1	965.5	946.8	927.6
7.5°	1132.4	1135.7	1127.7	1113.1	1093.8	1067.9	1063.2	1037.9	1004.7	975.4	947.5
10°	1190.2	1194.2	1183.6	1164.3	1139.0	1113.1	1109.8	1083.8	1048.6	1014.0	978.8
12.5°	1239.4	1240.7	1229.4	1203.5	1176.2	1149.6	1146.3	1122.4	1089.8	1054.6	1016.0
15°	1268.0	1268.7	1254.7	1226.1	1200.2	1176.9	1174.9	1154.3	1124.4	1091.1	1049.9
17.5°	1266.0	1267.3	1257.4	1232.1	1209.5	1195.5	1193.5	1180.2	1157.0	1127.0	1085.8
20°	1241.4	1242.7	1236.1	1219.5	1207.5	1203.5	1204.2	1200.2	1186.2	1161.6	1119.7
22.5°	1222.1	1224.1	1218.1	1206.2	1204.8	1214.1	1216.1	1218.1	1211.5	1189.5	1149.0
25°	1231.4	1234.8	1225.4	1208.8	1211.5	1232.1	1236.1	1242.7	1237.4	1218.8	1183.6
27.5°	1295.9	1297.9	1274.0	1240.1	1232.1	1254.0	1260.0	1270.7	1266.7	1249.4	1222.1
30°	1445.5	1444.2	1393.0	1309.9	1276.6	1285.3	1289.9	1305.2	1306.6	1295.3	1269.3
32.5°	1656.3	1649.7	1570.5	1438.2	1341.8	1320.5	1325.8	1346.5	1361.8	1349.8	1314.5
35°	1879.1	1873.1	1786.0	1631.0	1462.2	1388.4	1382.4	1398.3	1421.6	1388.4	1337.8
37.5°	2091.2	2081.9	1992.8	1801.3	1610.4	1507.4	1498.7	1482.8	1468.8	1405.0	1366.4
40°	2326.6	2315.9	2238.1	2021.4	1774.0	1598.5	1576.5	1513.4	1500.7	1460.2	1440.9
42.5°	2577.9	2577.9	2513.4	2300.0	1971.5	1728.8	1700.2	1605.1	1618.4	1591.8	1569.2
45°	2829.2	2836.5	2785.3	2580.6	2235.5	1974.8	1928.9	1794.0	1825.9	1813.9	1802.6
47.5°	3043.3	3057.3	3047.3	2867.1	2558.6	2274.0	2204.2	2063.9	2132.4	2161.0	2192.9
50°	3274.1	3289.4	3279.4	3208.2	2936.9	2636.4	2573.9	2429.0	2546.6	2632.4	2736.8
52.5°	3616.5	3638.4	3555.3	3528.1	3396.4	3048.0	2992.1	2827.2	3040.7	3183.0	3415.7
55°	3905.7	3905.1	3875.8	3938.3	3889.8	3551.3	3489.5	3339.9	3612.5	3763.4	4103.9
57.5°	4040.1	4056.0	4156.4	4333.3	4430.4	4166.4	4107.2	3954.3	4226.2	4304.7	4672.4
60°	4109.2	4129.2	4323.3	4673.1	4934.4	4838.0	4814.7	4619.9	4772.8	4763.5	5151.8
62.5°	4012.1	4052.0	4363.9	4828.6	5294.1	5512.8	5505.5	5211.0	5237.6	5146.5	5449.0
65°	3566.6	3609.8	4099.2	4750.9	5499.5	6026.2	6028.2	5746.2	5594.6	5332.7	5399.1
67.5°	2550.6	2612.5	3217.5	4250.8	5427.1	6303.4	6326.7	5988.9	5678.4	5167.8	4875.2
70°	1390.3	1435.6	1909.6	3089.9	4774.1	6236.9	6280.2	5871.9	5308.7	4470.3	3752.8
72.5°	631.7	646.3	888.3	1695.5	3261.4	5368.6	5549.4	5240.2	4359.9	3302.0	2386.4
75°	289.2	295.9	387.0	811.2	1704.2	3592.6	3719.6	3903.1	3034.0	2085.2	1244.1
77.5°	181.5	183.5	220.1	371.0	849.8	1793.3	1926.9	2323.9	1776.7	1032.0	520.0
80°	107.1	109.0	137.0	200.8	399.0	820.5	947.5	918.9	835.1	445.5	236.7
82.5°	53.9	55.9	79.1	114.4	217.4	326.5	384.3	386.3	311.2	241.4	133.6
85°	19.3	19.9	25.9	45.2	92.4	107.7	120.4	146.9	152.3	140.3	64.5
87.5°	0.0	0.0	0.7	1.3	2.7	10.6	11.3	21.3	44.5	49.9	25.9
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°	911.6	911.6	911.6	911.6	911.6	911.6	911.6	911.6	911.6	911.6	911.6
2.5°	914.3	904.3	901.0	897.6	892.3	890.3	886.3	882.3	882.3	878.4	876.4
5°	918.9	905.6	897.0	893.0	889.7	891.7	891.7	893.0	897.6	895.0	896.3
7.5°	935.5	920.2	908.3	905.0	905.0	912.9	918.3	924.9	933.5	934.9	934.9
10°	964.8	946.8	934.2	932.2	935.5	946.8	954.8	962.8	973.4	974.1	975.4
12.5°	996.7	978.8	966.1	968.8	972.1	986.7	995.4	1002.0	1012.7	1012.7	1012.0
15°	1030.0	1010.0	999.4	1004.7	1014.7	1031.3	1032.6	1033.3	1038.6	1037.3	1036.6
17.5°	1064.5	1043.3	1035.3	1043.3	1053.9	1061.9	1055.2	1045.9	1043.9	1041.3	1039.9
20°	1098.4	1076.5	1073.2	1079.2	1082.5	1075.8	1055.2	1037.9	1030.0	1026.0	1024.6
22.5°	1127.7	1109.1	1107.1	1107.1	1090.5	1067.2	1036.6	1013.3	1002.7	997.4	996.0
25°	1162.3	1145.0	1141.7	1123.7	1081.2	1038.6	997.4	976.1	967.5	964.8	965.5
27.5°	1202.8	1190.9	1180.2	1129.0	1054.6	988.1	941.5	932.2	928.9	932.2	934.2
30°	1252.7	1240.7	1216.8	1122.4	1012.0	922.2	877.7	877.0	887.0	895.6	897.0
32.5°	1293.3	1287.9	1248.7	1101.1	952.2	849.8	811.9	814.5	832.5	844.4	846.4
35°	1325.2	1333.8	1275.3	1065.9	881.0	781.3	751.4	752.7	762.7	779.3	780.0
37.5°	1370.4	1399.7	1299.3	1012.0	799.2	722.1	694.8	684.9	683.5	688.2	689.5
40°	1461.5	1505.4	1316.5	933.5	720.1	668.9	638.3	619.0	602.4	589.8	585.8
42.5°	1599.1	1649.7	1326.5	838.5	649.6	616.4	581.8	557.2	527.9	501.3	492.0
45°	1851.8	1868.4	1326.5	737.4	587.1	567.2	532.6	503.3	466.1	434.9	428.2
47.5°	2256.1	2202.9	1327.8	639.7	531.9	524.0	494.0	460.8	419.6	393.6	389.6
50°	2865.1	2678.3	1355.1	558.5	486.1	487.4	465.4	428.9	391.6	372.4	369.0
52.5°	3555.3	3264.1	1428.2	498.7	447.5	457.5	445.5	410.3	377.0	360.4	357.1
55°	4204.3	3802.7	1490.7	456.1	414.9	432.2	431.5	399.0	369.0	352.4	350.4
57.5°	4756.2	4171.7	1481.4	421.6	387.0	408.9	418.9	391.6	363.7	349.7	347.8
60°	5099.3	4367.2	1349.1	389.6	365.7	392.3	411.6	389.6	366.4	363.0	363.7
62.5°	5248.2	4331.3	1095.1	365.7	351.7	384.3	419.6	403.6	391.0	399.0	403.6
65°	5016.8	4022.8	805.9	347.8	338.4	386.3	438.2	425.5	391.0	396.3	398.3
67.5°	4374.5	3424.3	582.5	329.8	321.8	392.3	464.8	422.2	368.4	368.4	364.4
70°	3152.4	2462.9	422.9	311.8	305.2	383.7	466.1	399.6	342.4	340.4	330.5
72.5°	1897.0	1452.8	329.8	291.9	279.9	340.4	436.9	373.0	317.2	300.5	288.6
75°	985.4	728.1	276.6	270.0	240.0	288.6	399.6	331.8	271.3	256.7	250.0
77.5°	422.2	340.4	237.4	240.7	199.5	242.7	322.5	287.2	240.7	222.1	216.1
80°	208.1	193.5	187.5	192.8	159.6	187.5	277.9	251.3	204.1	182.9	174.2
82.5°	119.0	113.0	135.0	137.0	113.7	156.9	234.7	212.8	168.9	145.6	131.7
85°	55.2	59.2	81.8	82.5	70.5	107.7	153.6	119.7	89.8	74.5	71.1
87.5°	21.9	25.9	35.9	35.2	20.6	19.9	13.3	7.3	6.0	5.3	4.7
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)