

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: P629225

Luminaire Tested: GWS-SA1B-730-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629225
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-SA1B-730-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2960.8 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

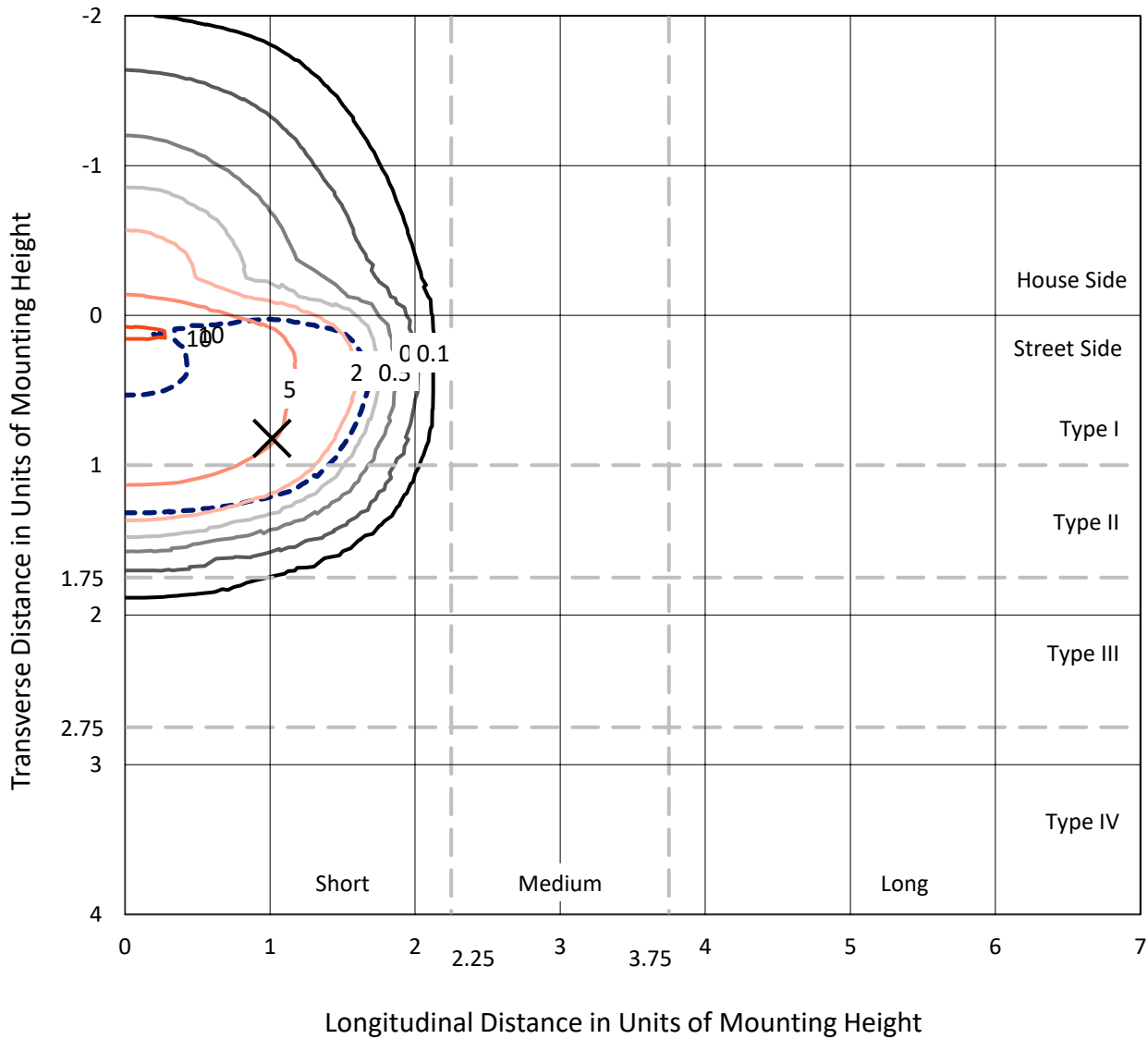
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

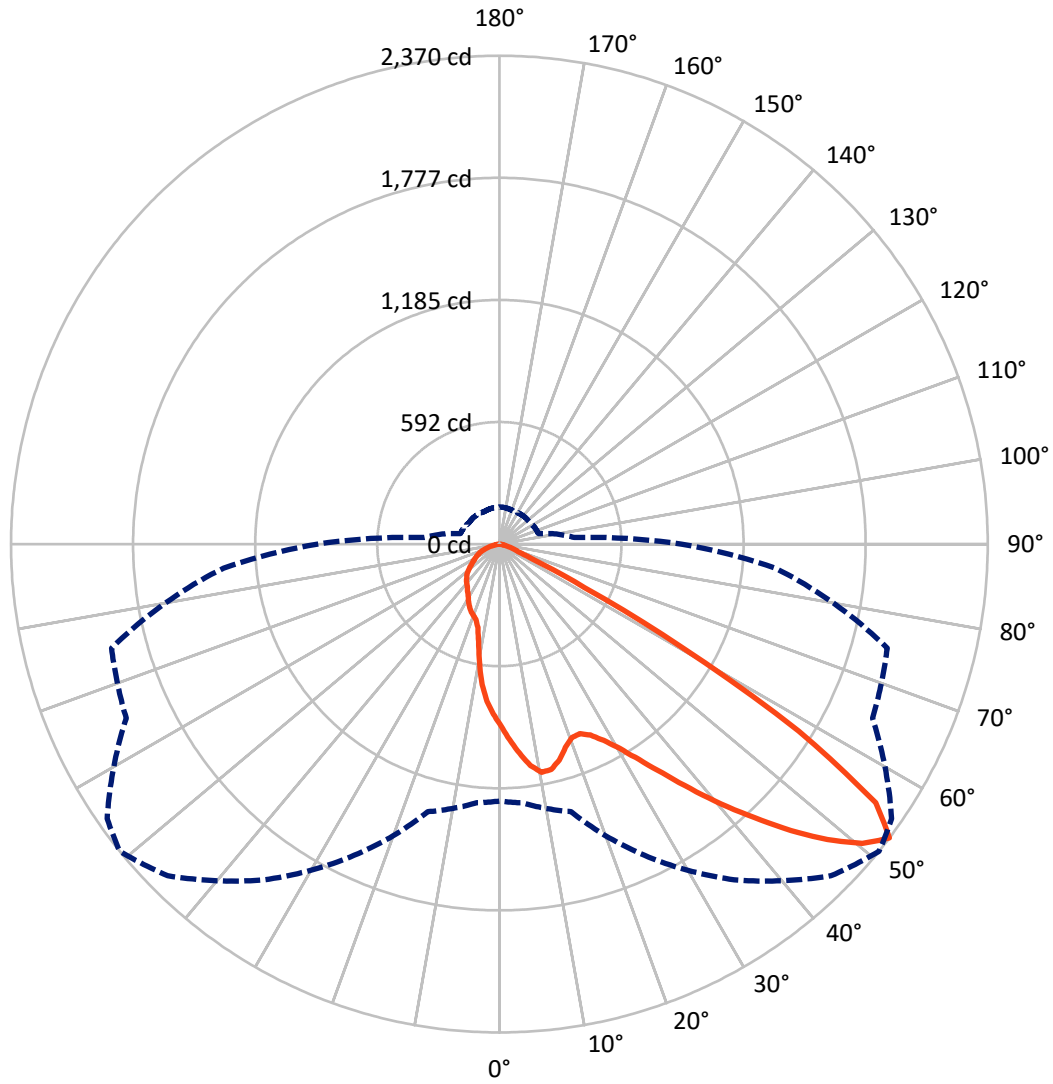
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 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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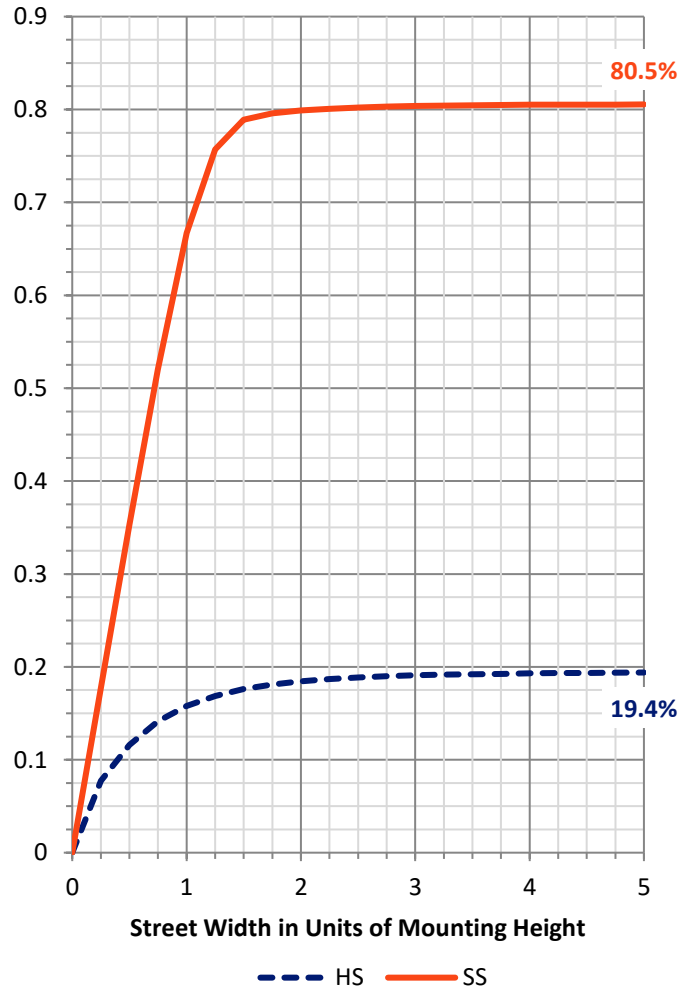
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	576.9	0.0	576.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	2383.9	0.0	2383.9
	% Fixture	80.5	0.0	80.5
Total	Lumens	2960.8	0.0	2960.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.3	2.8
10°-20°	213.8	7.2
20°-30°	347.5	11.7
30°-40°	550.8	18.6
40°-50°	830.7	28.1
50°-60°	718.6	24.3
60°-70°	162.9	5.5
70°-80°	48.0	1.6
80°-90°	6.2	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°	2960.8	100.0
0°-180°	2960.8	100.0

Coefficient of Utilization



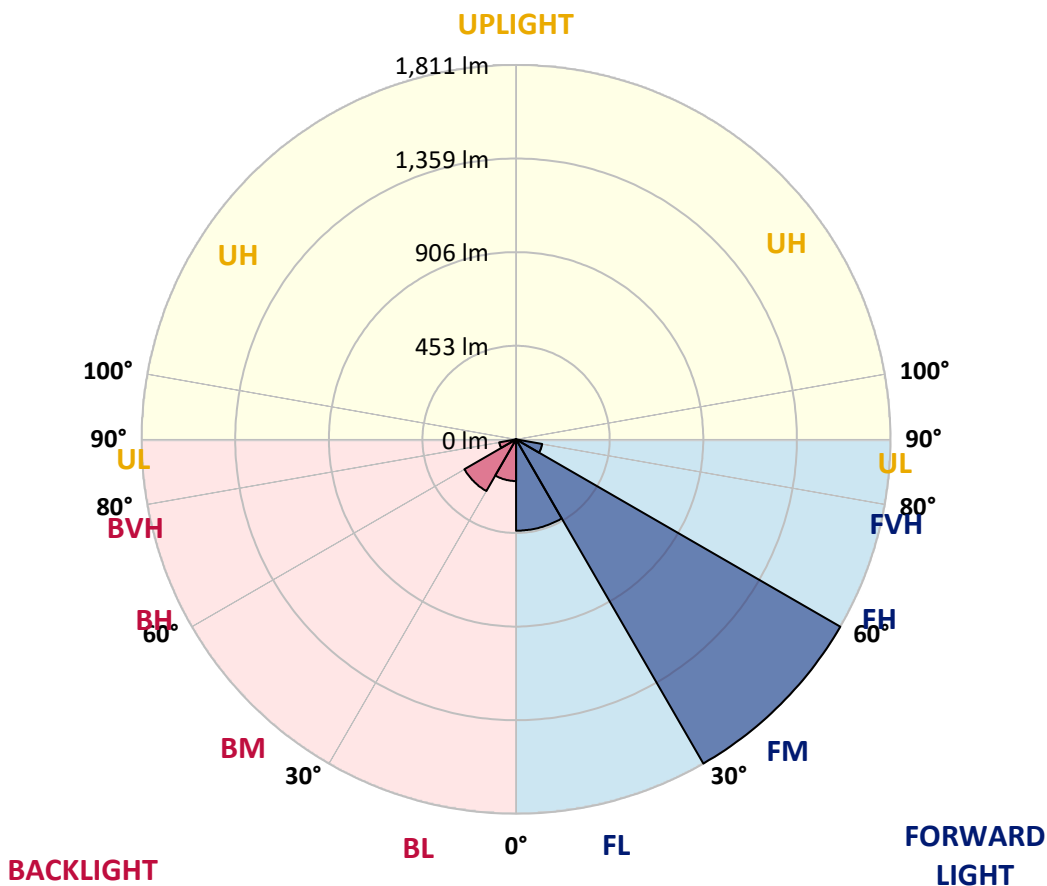
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.9	14.9			
FM (30°-60°)	1811.5	61.2			
FH (60°-80°)	128.2	4.3			G0/660
FVH (80°-90°)	2.3	0.1			G0/10
BL (0°-30°)	201.7	6.8	B1/500		
BM (30°-60°)	288.6	9.7	B1/1000		
BH (60°-80°)	82.7	2.8	B0/110		G0/110
BVH (80°-90°)	3.9	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	881.6	881.6	881.6	881.6	881.6	881.6	881.6	881.6	881.6	881.6	881.6
2.5°	982.4	988.0	979.4	976.1	970.7	961.4	950.6	947.6	924.4	909.2	892.1
5°	1081.1	1084.2	1077.2	1070.2	1056.8	1040.2	1019.4	1014.9	972.8	938.0	901.7
7.5°	1103.1	1102.0	1108.1	1112.0	1110.4	1103.8	1085.4	1076.7	1026.4	971.2	917.6
10°	1016.1	1009.6	1032.0	1058.7	1090.7	1127.7	1125.6	1124.9	1081.1	1015.9	938.0
12.5°	900.8	897.5	915.7	949.2	1009.8	1091.7	1122.3	1146.2	1130.5	1058.5	960.7
15°	834.8	833.6	846.0	870.1	918.3	1021.7	1087.2	1134.5	1172.9	1104.1	984.8
17.5°	822.9	823.6	827.8	841.6	876.2	961.4	1037.2	1103.1	1205.9	1154.1	1014.9
20°	857.7	862.4	855.1	857.2	876.0	939.6	1003.0	1071.6	1226.9	1204.4	1047.5
22.5°	935.2	933.5	917.6	908.2	908.5	952.9	999.3	1056.8	1240.7	1253.3	1076.9
25°	1022.9	1021.0	1002.1	981.2	968.1	989.2	1026.2	1072.5	1253.1	1298.0	1100.6
27.5°	1126.5	1120.7	1099.6	1073.0	1043.9	1053.1	1078.1	1114.8	1272.3	1342.0	1116.2
30°	1226.9	1233.7	1203.5	1171.9	1141.3	1135.7	1150.2	1183.4	1311.4	1393.5	1135.0
32.5°	1360.0	1357.7	1324.2	1283.1	1239.3	1235.1	1246.6	1277.0	1381.6	1464.6	1163.5
35°	1521.2	1521.7	1474.2	1418.5	1356.3	1345.1	1364.2	1393.7	1486.1	1561.0	1208.7
37.5°	1688.8	1688.1	1646.6	1583.5	1498.5	1482.6	1504.6	1526.6	1616.9	1692.3	1278.8
40°	1806.2	1810.9	1791.5	1758.2	1677.8	1638.9	1658.3	1673.5	1759.2	1846.7	1371.3
42.5°	1872.9	1879.9	1884.1	1904.0	1861.7	1820.2	1813.2	1821.2	1886.2	1990.1	1458.1
45°	1887.2	1896.5	1927.2	2000.9	2017.2	2005.5	1982.6	1963.4	1981.0	2091.9	1514.9
47.5°	1824.2	1840.6	1906.1	2035.0	2130.7	2167.4	2141.9	2112.7	2035.7	2118.1	1509.1
50°	1574.8	1594.0	1741.6	1965.3	2146.9	2280.7	2283.0	2239.7	2029.2	2042.5	1435.6
52.5°	1246.8	1259.9	1344.4	1666.1	1988.5	2276.0	2369.6	2323.3	1997.6	1948.0	1343.7
55°	745.2	766.2	845.1	1099.2	1549.1	2017.2	2216.6	2239.0	1982.1	1868.7	1281.0
57.5°	251.5	261.8	337.1	485.5	912.9	1477.0	1712.6	1803.9	1799.4	1747.5	1158.6
60°	119.8	122.1	137.3	184.1	365.5	771.8	1013.8	1119.1	1215.0	1224.6	720.8
62.5°	91.2	92.6	100.4	110.4	146.9	325.2	464.7	545.1	582.3	499.7	262.5
65°	76.3	77.4	83.3	89.6	99.9	140.8	178.3	205.7	185.3	144.4	125.2
67.5°	63.6	64.6	69.0	75.8	82.8	94.3	99.0	101.8	106.7	119.8	115.1
70°	49.8	50.8	55.4	61.3	68.1	70.9	75.3	78.1	88.0	104.8	104.3
72.5°	38.4	39.5	42.1	45.9	51.5	54.3	59.2	62.5	68.1	81.7	87.3
75°	28.1	28.8	31.1	32.3	33.0	32.3	37.2	40.9	48.4	53.6	55.0
77.5°	11.5	12.9	12.4	12.4	14.7	17.8	20.4	22.7	27.8	30.9	31.1
80°	4.7	5.1	6.1	6.8	8.2	10.5	12.2	13.1	15.4	17.3	18.7
82.5°	2.8	3.0	3.5	3.7	4.7	6.1	7.0	7.7	9.6	11.5	12.2
85°	1.4	1.4	1.6	1.9	2.3	2.8	3.3	3.7	4.9	6.1	6.8
87.5°	0.2	0.2	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.3
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°	881.6	881.6	881.6	881.6	881.6	881.6	881.6	881.6	881.6	881.6	881.6
2.5°	882.0	869.4	854.7	843.0	829.4	819.3	805.1	796.2	787.8	780.7	775.6
5°	883.0	861.7	831.0	803.9	775.8	749.2	721.8	699.6	679.7	663.1	661.7
7.5°	888.4	857.7	809.8	762.3	707.5	654.6	601.8	558.7	526.0	508.9	505.4
10°	897.5	857.2	788.0	712.2	618.8	533.7	471.0	438.2	419.3	412.5	410.1
12.5°	907.1	856.1	760.2	641.5	511.9	437.3	402.9	398.9	402.4	402.9	402.7
15°	918.8	855.4	725.1	558.7	433.8	392.6	394.9	403.4	411.5	413.4	413.4
17.5°	933.1	853.7	677.3	477.8	384.9	383.9	396.3	407.6	415.3	416.7	416.7
20°	948.0	849.5	618.6	411.8	365.0	378.6	391.9	400.5	405.9	407.8	408.0
22.5°	958.3	838.3	551.0	362.9	352.6	368.3	377.9	386.7	386.7	382.1	380.7
25°	960.4	814.2	477.8	329.4	337.8	352.4	362.2	357.0	347.4	343.7	343.5
27.5°	952.7	779.1	405.5	305.6	320.1	334.6	332.9	325.4	321.2	317.5	318.9
30°	943.3	737.0	342.8	285.9	299.5	313.7	308.1	305.6	302.5	298.3	299.2
32.5°	937.0	690.0	294.6	270.7	285.7	288.0	292.0	291.8	288.9	281.0	280.5
35°	938.9	642.5	262.3	258.3	274.2	273.3	280.8	279.4	259.9	248.9	248.2
37.5°	953.9	596.8	243.3	248.5	256.0	261.8	268.4	251.5	244.7	237.7	238.2
40°	982.4	554.5	233.0	243.1	245.0	253.6	238.4	238.2	235.1	228.8	228.6
42.5°	1014.7	518.7	226.0	240.5	237.9	239.6	223.4	225.3	225.1	221.1	219.9
45°	1034.4	485.7	220.4	230.9	231.6	215.2	210.3	212.4	213.6	211.5	211.3
47.5°	1014.0	447.8	214.5	216.2	222.3	204.3	198.2	198.4	200.5	200.7	199.8
50°	956.9	405.5	207.5	203.5	199.6	192.8	187.2	186.0	188.1	190.2	190.9
52.5°	883.2	365.0	195.8	189.7	180.4	180.4	177.8	174.1	176.9	179.7	180.6
55°	829.2	335.0	179.2	172.4	162.1	165.6	165.2	161.9	165.6	167.8	168.5
57.5°	718.5	269.3	157.7	155.6	146.9	151.1	152.1	147.9	146.0	146.5	147.2
60°	426.5	173.8	142.3	142.0	134.3	139.2	142.0	137.8	132.2	132.9	133.8
62.5°	191.4	132.9	122.8	121.9	121.7	128.0	131.0	127.0	119.1	119.8	120.7
65°	120.5	114.9	106.7	106.7	110.4	115.8	118.2	114.9	105.8	104.6	105.5
67.5°	111.8	106.9	98.5	96.9	98.7	103.2	103.4	97.1	91.7	90.8	90.8
70°	100.4	96.6	88.4	85.2	84.5	84.2	83.5	81.9	78.4	77.4	77.9
72.5°	83.1	80.5	75.3	71.8	70.0	69.7	66.9	65.5	62.5	62.0	61.8
75°	55.0	55.7	55.7	55.2	53.6	52.9	49.8	48.4	44.9	43.5	43.3
77.5°	32.5	33.2	34.2	34.4	34.2	34.2	31.4	29.7	26.2	24.3	23.9
80°	19.9	20.4	20.8	21.5	20.6	19.9	17.3	15.7	14.0	12.9	12.6
82.5°	12.9	13.3	13.6	14.0	13.6	12.6	10.5	9.6	8.4	7.5	7.3
85°	7.3	7.5	8.0	8.0	7.3	6.6	5.4	4.7	4.0	3.5	3.5
87.5°	2.6	2.6	2.6	2.8	2.3	2.1	1.4	0.9	0.7	0.7	0.7
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)