

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: P637560

Luminaire Tested: GWS-SA4D-722-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18393.4 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

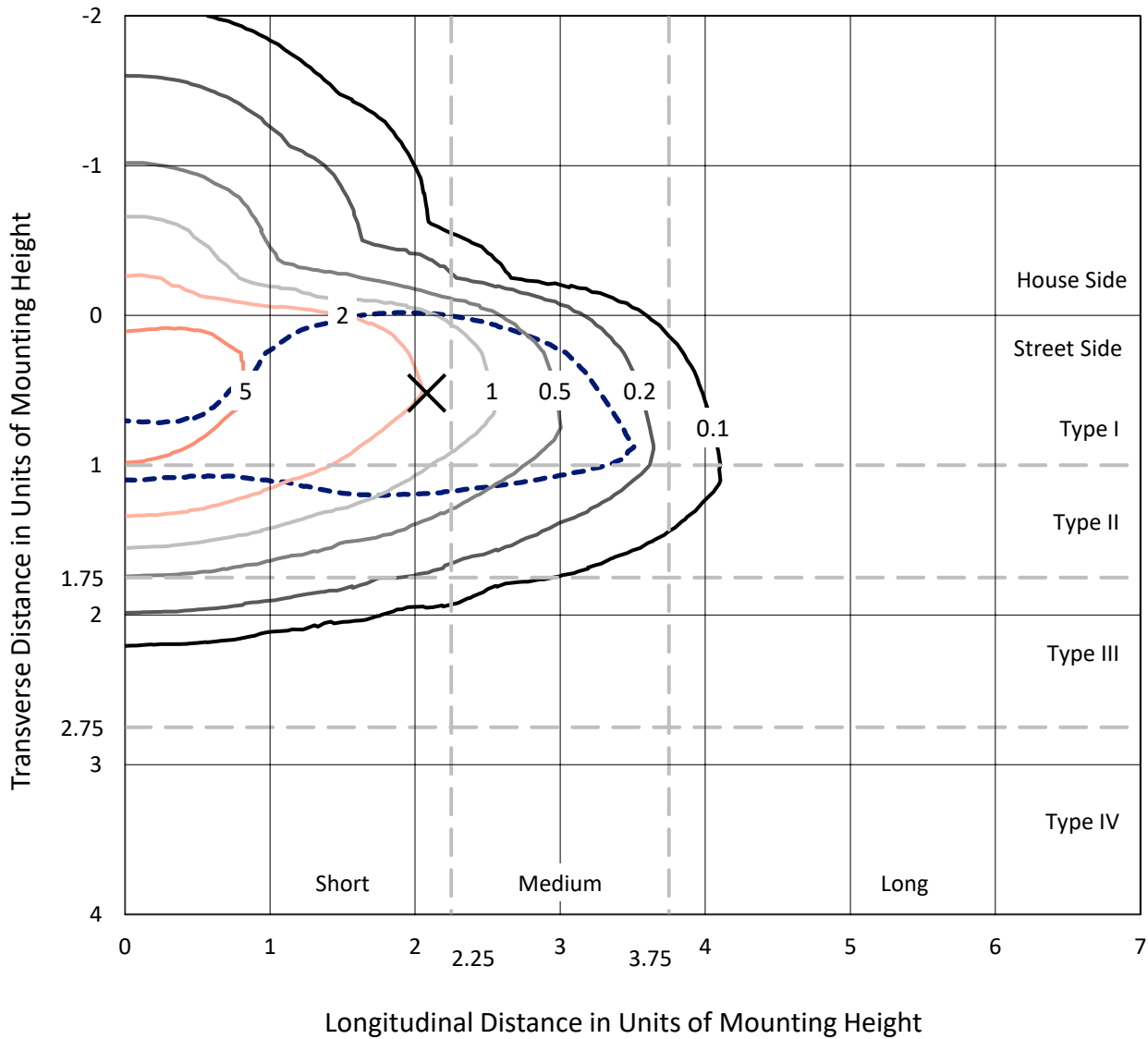
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

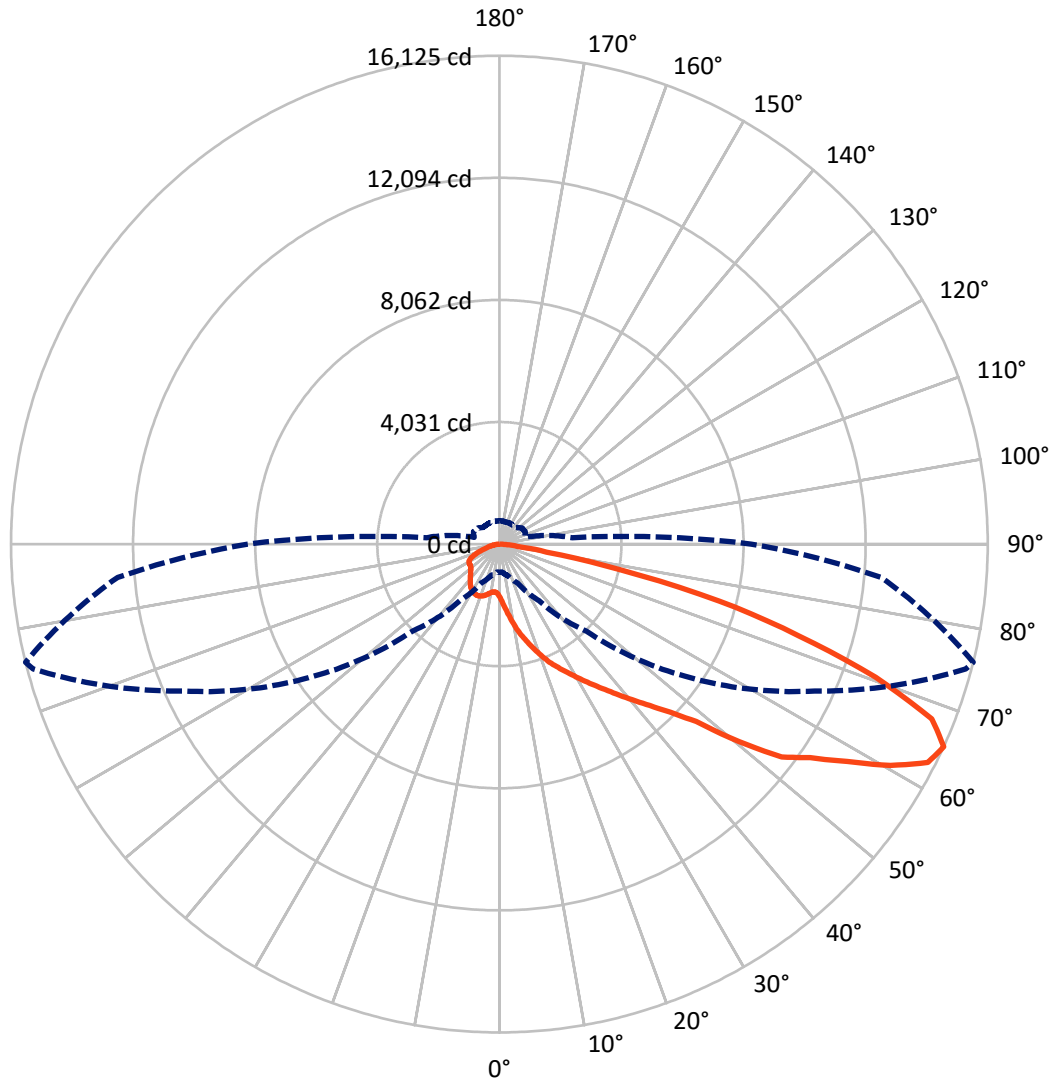
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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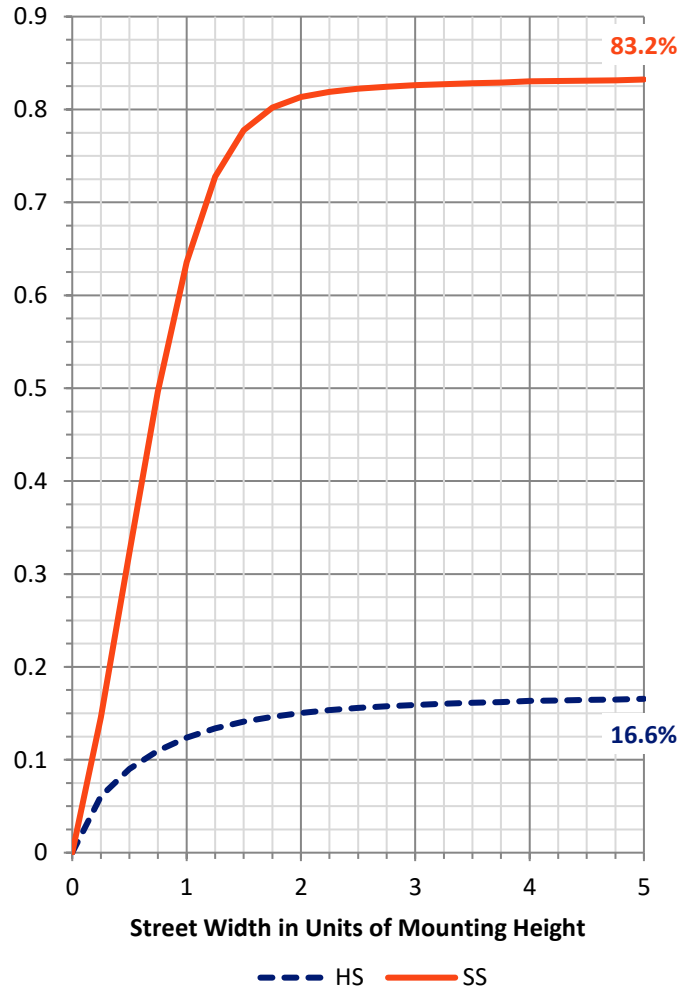
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3074.5	0.0	3074.5
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	15318.9	0.0	15318.9
	% Fixture	83.3	0.0	83.3
Total	Lumens	18393.4	0.0	18393.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.9	1.1
10°-20°	788.2	4.3
20°-30°	1536.1	8.4
30°-40°	2569.0	14.0
40°-50°	3678.3	20.0
50°-60°	4354.6	23.7
60°-70°	3620.9	19.7
70°-80°	1481.7	8.1
80°-90°	157.8	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°	18393.4	100.0
0°-180°	18393.4	100.0

Coefficient of Utilization



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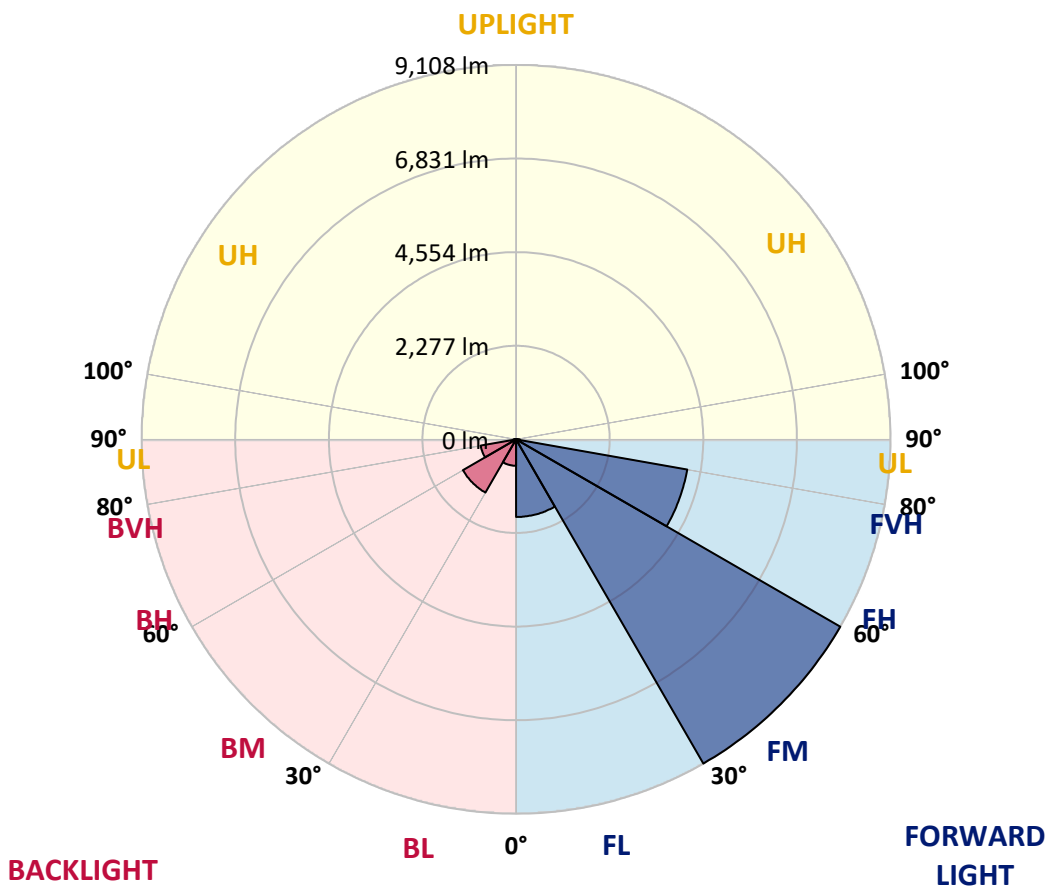
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1888.0	10.3			
FM (30°-60°)	9107.7	49.5			
FH (60°-80°)	4229.1	23.0			G2/5000
FVH (80°-90°)	94.1	0.5			G1/100
BL (0°-30°)	643.2	3.5	B2/1000		
BM (30°-60°)	1494.1	8.1	B2/2500		
BH (60°-80°)	873.5	4.7	B2/1000		G2/1000
BVH (80°-90°)	63.7	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8
2.5°	2441.3	2450.4	2420.7	2410.3	2340.5	2246.1	2167.2	2048.2	1938.3	1921.5	1823.3
5°	3100.8	3062.0	3028.4	3006.4	2909.4	2802.1	2635.3	2411.6	2177.6	2149.1	1937.0
7.5°	3492.6	3486.2	3444.8	3431.9	3356.9	3249.5	3077.5	2799.5	2459.4	2412.9	2090.9
10°	3806.8	3803.0	3782.3	3793.9	3725.4	3620.6	3453.8	3166.8	2768.5	2721.9	2262.9
12.5°	4081.0	4087.4	4083.6	4126.2	4091.3	4009.9	3836.6	3521.1	3077.5	3027.1	2472.4
15°	4281.4	4286.6	4306.0	4399.1	4418.5	4401.7	4225.8	3868.9	3382.7	3310.3	2688.3
17.5°	4338.3	4348.6	4395.2	4545.2	4649.9	4719.8	4589.2	4223.2	3682.7	3603.8	2908.2
20°	4414.6	4426.2	4472.8	4629.2	4783.1	4942.2	4918.9	4582.7	3985.3	3920.6	3130.6
22.5°	4767.6	4758.6	4737.9	4812.9	4922.8	5120.6	5178.8	4928.0	4298.2	4236.2	3376.2
25°	5447.8	5431.0	5299.1	5230.5	5194.3	5314.6	5418.0	5242.2	4603.4	4510.3	3605.1
27.5°	6197.8	6188.7	6020.6	5857.7	5635.3	5583.5	5644.3	5516.3	4899.5	4805.1	3804.3
30°	6907.7	6880.5	6704.7	6500.3	6202.9	5980.5	5891.3	5785.3	5224.1	5125.8	4037.0
32.5°	7542.6	7507.7	7300.8	7074.5	6762.8	6500.3	6234.0	6071.0	5591.3	5477.5	4274.9
35°	8063.7	8028.8	7816.7	7576.2	7233.5	7039.6	6674.9	6381.4	5965.0	5849.9	4555.5
37.5°	8467.1	8434.8	8213.7	7977.0	7678.3	7524.5	7207.7	6730.5	6395.6	6275.3	4853.0
40°	8693.4	8670.1	8493.0	8305.5	8054.6	7921.4	7779.2	7171.5	6877.9	6757.7	5203.4
42.5°	8762.0	8746.4	8622.3	8525.3	8355.9	8255.1	8336.5	7690.0	7392.6	7287.8	5597.8
45°	8590.0	8590.0	8553.8	8602.9	8610.7	8609.4	8895.1	8275.8	8024.9	7909.8	6153.8
47.5°	8150.3	8178.8	8231.8	8473.6	8728.3	8941.7	9548.1	9056.8	8838.2	8743.8	6941.3
50°	7346.0	7423.6	7604.6	8076.6	8618.4	9161.5	10166.2	10211.5	10419.7	10252.9	8099.9
52.5°	6168.0	6156.4	6618.0	7290.4	8116.7	9170.6	10506.3	11230.5	11790.4	11675.3	8961.1
55°	4902.1	4882.7	5313.3	6240.4	7347.3	8824.0	10710.6	11697.3	12550.7	12447.2	9735.6
57.5°	3753.8	3729.3	4112.0	4948.6	6261.1	8088.3	10671.8	12253.3	13596.8	13543.8	10788.2
60°	2583.6	2553.8	2912.0	3643.9	4975.8	6963.3	10242.5	12539.1	14821.4	14839.5	11914.5
62.5°	1551.7	1534.9	1794.8	2362.5	3579.3	5569.3	9237.8	12365.8	15796.3	15877.8	12638.6
65°	936.2	924.6	1077.1	1409.5	2270.7	4064.2	7688.7	11480.0	15937.3	16124.8	12655.4
67.5°	681.5	682.7	726.7	858.6	1324.1	2625.0	5769.8	9892.1	15202.8	15396.8	11857.6
70°	592.2	594.8	618.1	647.8	800.4	1502.6	3751.2	7808.9	13031.7	13181.7	9945.1
72.5°	526.3	526.3	541.8	557.3	625.9	915.5	2009.5	5458.1	10285.2	10325.3	7590.4
75°	462.9	459.0	466.8	474.6	543.1	640.1	977.6	3803.0	7596.9	7503.8	4906.0
77.5°	368.5	364.7	365.9	373.7	435.8	457.8	495.3	2375.4	4281.4	4040.9	2167.2
80°	262.5	259.9	274.1	293.5	322.0	280.6	310.3	1149.6	1697.8	1580.2	840.5
82.5°	156.5	161.6	183.6	199.1	222.4	175.9	200.4	384.0	601.3	585.8	341.4
85°	22.0	23.3	65.9	76.3	95.7	68.5	106.0	173.3	240.5	257.3	120.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.1	31.0	68.5	69.8	29.7
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°	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8
2.5°	1772.8	1712.0	1625.4	1553.0	1492.2	1443.1	1401.7	1370.7	1361.6	1348.7	1348.7
5°	1837.5	1727.6	1572.4	1462.5	1399.1	1361.6	1335.8	1322.8	1316.4	1308.6	1304.7
7.5°	1926.7	1772.8	1563.3	1452.1	1403.0	1379.7	1362.9	1355.2	1350.0	1342.2	1342.2
10°	2049.5	1840.1	1591.8	1488.3	1449.5	1426.3	1406.9	1393.9	1382.3	1370.7	1368.1
12.5°	2182.7	1928.0	1643.5	1537.5	1496.1	1467.7	1440.5	1421.1	1406.9	1392.7	1388.8
15°	2330.1	2018.5	1699.1	1585.3	1533.6	1494.8	1462.5	1432.7	1413.3	1392.7	1390.1
17.5°	2475.0	2110.3	1745.7	1617.7	1551.7	1503.9	1457.3	1418.5	1393.9	1370.7	1364.2
20°	2648.2	2202.1	1778.0	1626.7	1547.8	1484.5	1428.9	1379.7	1352.6	1325.4	1321.5
22.5°	2807.3	2287.5	1793.5	1613.8	1518.1	1443.1	1378.4	1325.4	1295.7	1268.5	1263.3
25°	2961.2	2362.5	1787.0	1582.7	1472.8	1386.2	1318.9	1265.9	1237.5	1209.0	1201.3
27.5°	3109.9	2412.9	1761.2	1534.9	1415.9	1322.8	1258.2	1210.3	1185.8	1161.2	1150.8
30°	3256.0	2459.4	1721.1	1472.8	1343.5	1256.9	1203.9	1170.2	1145.7	1119.8	1112.1
32.5°	3403.4	2493.1	1660.3	1400.4	1269.8	1198.7	1166.4	1141.8	1115.9	1090.1	1082.3
35°	3552.1	2507.3	1586.6	1317.7	1207.7	1161.2	1149.6	1121.1	1086.2	1055.2	1044.8
37.5°	3729.3	2520.2	1494.8	1236.2	1153.4	1143.1	1140.5	1097.8	1056.5	1013.8	1002.1
40°	3942.6	2537.0	1400.4	1162.5	1109.5	1136.6	1126.3	1068.1	985.3	944.0	931.0
42.5°	4203.8	2568.1	1302.1	1095.2	1077.1	1112.1	1100.4	995.7	940.1	916.8	910.3
45°	4587.9	2681.9	1203.9	1042.2	1052.6	1077.1	1059.0	953.0	931.0	915.5	907.7
47.5°	5271.9	2856.4	1118.5	1002.1	1033.2	1046.1	976.3	941.4	924.6	903.9	894.8
50°	5983.1	2932.7	1050.0	977.6	1011.2	1017.7	931.0	925.8	914.2	892.2	883.2
52.5°	6464.1	2922.4	1008.6	968.5	993.1	968.5	910.3	909.0	901.3	875.4	865.1
55°	7007.2	2940.5	990.5	971.1	985.3	885.8	884.5	888.4	884.5	856.0	850.9
57.5°	7740.4	2996.1	981.5	980.2	980.2	845.7	859.9	865.1	857.3	844.4	840.5
60°	8445.1	3000.0	964.6	990.5	976.3	821.1	831.5	836.6	827.6	825.0	823.7
62.5°	8710.2	2813.8	927.1	982.7	960.8	794.0	801.7	804.3	795.2	801.7	800.4
65°	8315.8	2418.1	865.1	945.2	912.9	769.4	764.2	770.7	755.2	772.0	773.3
67.5°	7383.5	1921.5	770.7	874.1	845.7	742.2	731.9	731.9	706.0	731.9	730.6
70°	5953.4	1357.7	632.3	760.3	772.0	709.9	704.7	675.0	633.6	672.4	668.5
72.5°	4512.9	975.0	497.8	601.3	664.6	664.6	665.9	615.5	567.7	585.8	570.3
75°	2859.0	686.6	398.3	460.3	521.1	583.2	612.9	519.8	477.1	469.4	461.6
77.5°	1287.9	451.3	310.3	353.0	369.8	460.3	559.9	447.4	389.2	372.4	367.2
80°	539.2	280.6	221.1	249.6	227.6	386.6	494.0	347.8	285.8	262.5	245.7
82.5°	236.6	166.8	140.9	134.5	142.2	287.1	368.5	231.5	178.4	241.8	244.4
85°	99.6	87.9	72.4	65.9	58.2	109.9	173.3	90.5	111.2	63.4	51.7
87.5°	23.3	25.9	19.4	12.9	7.8	1.3	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)