

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: P636903

Luminaire Tested: GWS-SA4B-760-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-760-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10720.8 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

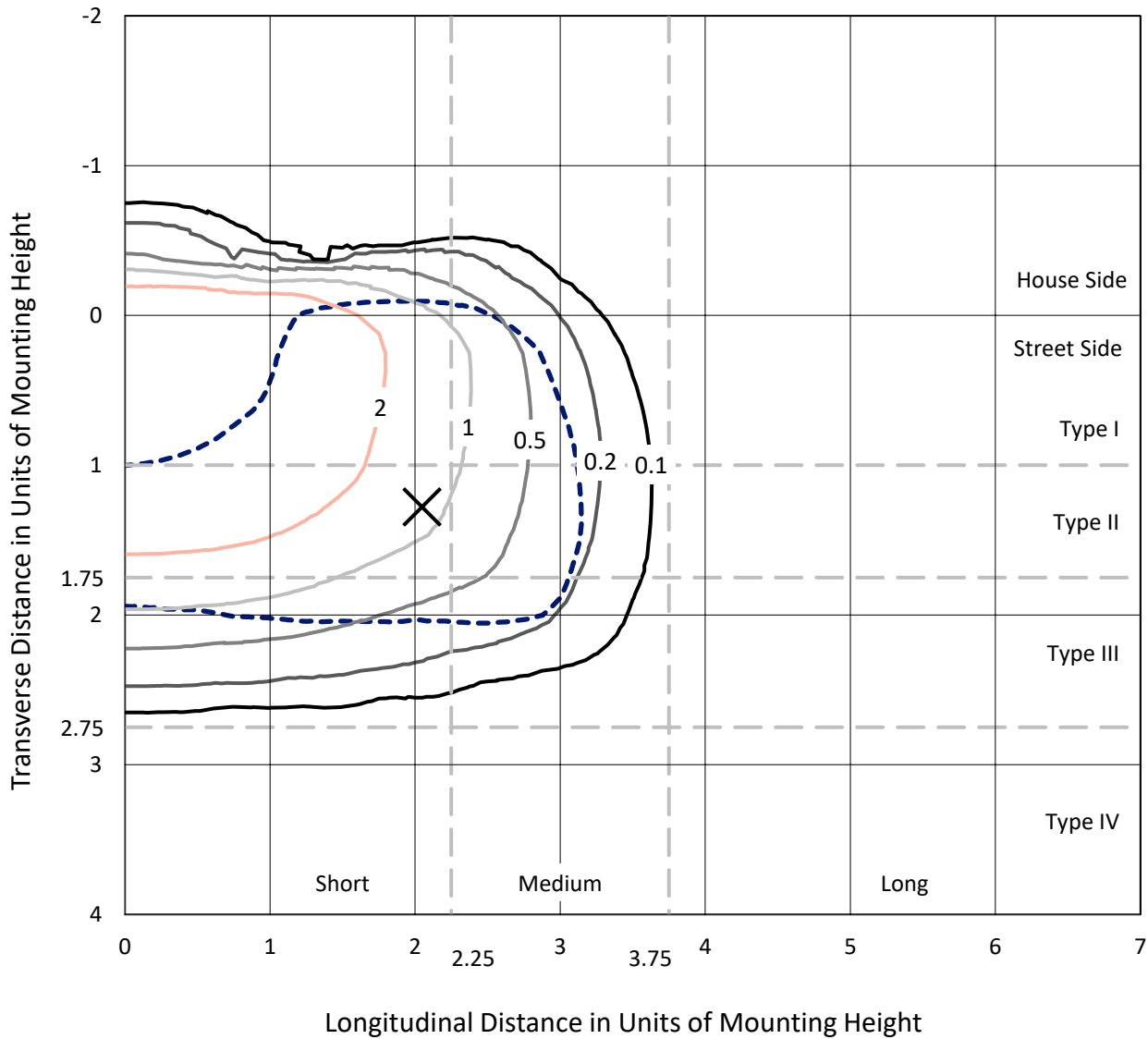
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

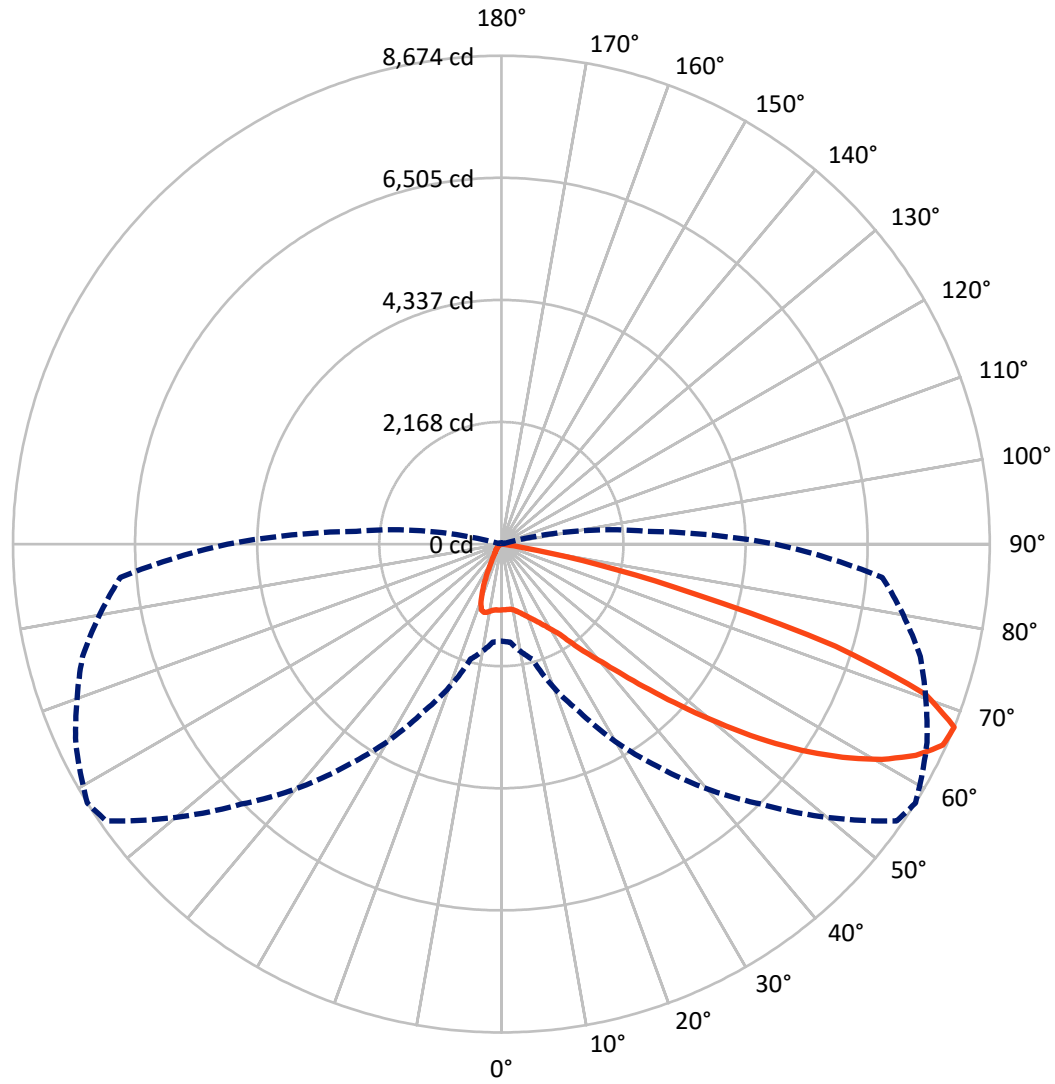
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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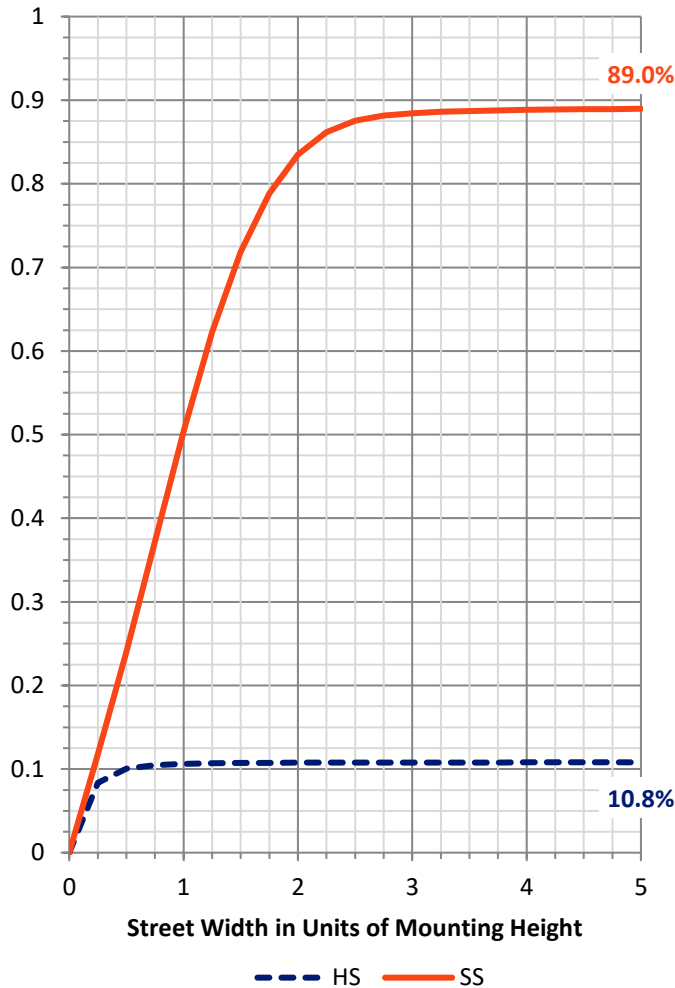
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1169.6	0.0	1169.6
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	9551.2	0.0	9551.2
	% Fixture	89.1	0.0	89.1
Total	Lumens	10720.8	0.0	10720.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	1.0
10°-20°	308.1	2.9
20°-30°	537.8	5.0
30°-40°	960.5	9.0
40°-50°	1755.6	16.4
50°-60°	2919.8	27.2
60°-70°	3171.4	29.6
70°-80°	931.2	8.7
80°-90°	26.5	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°	10720.8	100.0
0°-180°	10720.8	100.0

Coefficient of Utilization



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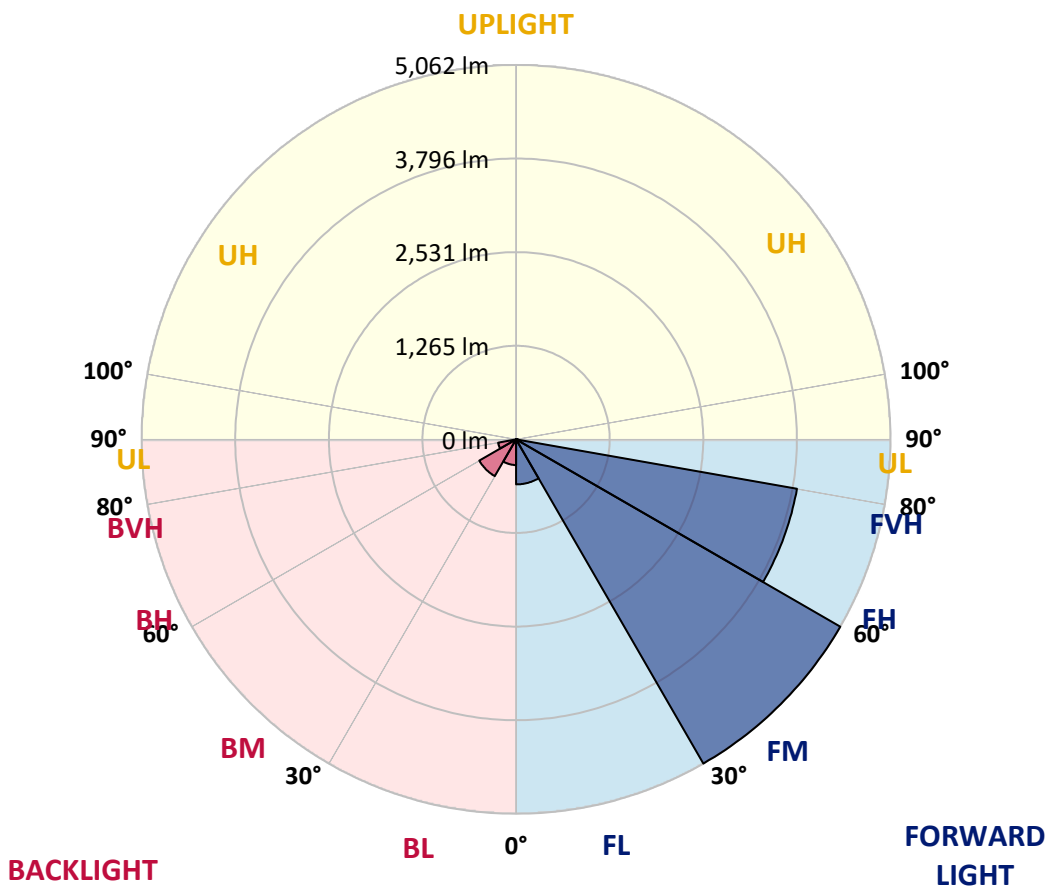
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	608.8	5.7			
FM (30°-60°)	5061.5	47.2			
FH (60°-80°)	3855.7	36.0			G2/5000
FVH (80°-90°)	25.2	0.2			G1/100
BL (0°-30°)	346.9	3.2	B1/500		
BM (30°-60°)	574.5	5.4	B1/1000		
BH (60°-80°)	246.9	2.3	B1/500		G1/500
BVH (80°-90°)	1.3	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1168.2	1168.2	1168.2	1168.2	1168.2	1168.2	1168.2	1168.2	1168.2	1168.2	1168.2
2.5°	1146.3	1144.2	1144.2	1152.5	1153.6	1157.8	1167.2	1168.2	1173.5	1171.4	1164.1
5°	1086.6	1087.6	1093.9	1108.6	1121.1	1136.8	1159.9	1165.1	1176.6	1182.9	1178.7
7.5°	1031.1	1032.2	1041.6	1064.6	1088.7	1120.1	1157.8	1168.2	1191.3	1208.0	1209.1
10°	1010.2	1009.1	1018.6	1044.7	1076.1	1120.1	1174.5	1188.1	1222.7	1252.0	1257.2
12.5°	1016.5	1015.4	1024.8	1048.9	1083.5	1138.9	1203.8	1222.7	1266.6	1311.7	1321.1
15°	1041.6	1040.5	1046.8	1066.7	1104.4	1162.0	1241.5	1269.8	1325.3	1379.7	1394.4
17.5°	1117.0	1111.7	1105.4	1107.5	1129.5	1189.2	1289.7	1324.2	1393.3	1458.2	1470.8
20°	1250.9	1237.3	1220.6	1198.6	1188.1	1229.0	1345.2	1384.9	1468.7	1543.0	1545.1
22.5°	1453.0	1447.7	1409.0	1345.2	1300.1	1301.2	1410.1	1456.1	1558.7	1640.4	1628.8
25°	1734.6	1731.4	1671.8	1567.1	1449.8	1410.1	1492.8	1539.9	1665.5	1752.4	1715.7
27.5°	2084.2	2062.2	1992.1	1850.8	1676.0	1551.4	1597.4	1639.3	1778.5	1860.2	1791.1
30°	2388.8	2389.9	2323.9	2176.3	1979.5	1763.9	1725.2	1761.8	1882.2	1968.0	1884.3
32.5°	2681.9	2691.4	2619.1	2486.2	2270.5	2041.3	1908.3	1914.6	2015.1	2108.3	2006.7
35°	2954.1	2961.4	2911.2	2798.1	2597.2	2331.3	2163.8	2160.6	2215.1	2310.3	2177.4
37.5°	3258.7	3266.1	3216.9	3115.3	2926.9	2663.1	2453.7	2449.5	2471.5	2549.0	2397.2
40°	3583.3	3596.9	3542.4	3456.6	3276.5	3053.6	2790.8	2753.1	2731.1	2822.2	2681.9
42.5°	3912.0	3932.9	3914.0	3828.2	3674.3	3490.1	3228.4	3169.8	3122.7	3236.8	3088.1
45°	4320.2	4345.3	4337.0	4271.0	4151.7	4002.0	3754.9	3686.9	3664.9	3770.6	3593.7
47.5°	4712.8	4740.0	4770.3	4755.7	4670.9	4601.8	4327.5	4288.8	4282.5	4395.6	4121.3
50°	5004.8	5030.0	5146.1	5229.9	5287.5	5272.8	5035.2	4977.6	4968.2	5040.4	4678.2
52.5°	5214.2	5238.3	5398.4	5660.1	5871.6	5986.7	5747.0	5734.5	5683.2	5658.0	5199.5
55°	5376.4	5409.9	5578.5	5974.2	6400.2	6655.7	6506.0	6460.9	6329.1	6184.6	5683.2
57.5°	5408.9	5422.5	5660.1	6194.0	6810.6	7224.1	7224.1	7145.6	6891.2	6691.2	6242.2
60°	5117.9	5159.8	5481.1	6176.2	6986.5	7595.7	7819.7	7765.3	7421.9	7175.9	6780.2
62.5°	4472.0	4519.1	4910.6	5750.2	6810.6	7672.1	8270.9	8262.5	7875.2	7576.9	7226.2
65°	3429.4	3463.9	3805.2	4810.1	6067.3	7378.0	8593.3	8616.3	8233.2	7841.7	7380.1
67.5°	1723.1	1747.1	2115.6	3286.0	4809.1	6531.1	8571.3	8673.9	8342.1	7701.4	6792.8
70°	601.9	626.0	799.8	1410.1	2926.9	4987.0	7830.2	7997.7	7702.5	6574.0	5011.1
72.5°	206.2	217.7	331.8	523.4	1138.9	2956.2	5954.3	6206.6	5677.9	4413.4	2879.8
75°	117.2	124.6	178.0	283.7	477.3	972.5	3378.1	3533.0	3310.0	2405.6	1185.0
77.5°	79.6	85.8	111.0	161.2	263.8	313.0	1377.6	1734.6	1512.6	785.1	302.5
80°	47.1	51.3	68.0	95.3	135.0	121.4	295.2	392.6	505.6	234.5	91.1
82.5°	22.0	25.1	44.0	62.8	68.0	51.3	86.9	105.7	142.4	115.1	37.7
85°	0.0	0.0	14.7	26.2	25.1	14.7	24.1	26.2	38.7	57.6	14.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	2.1	3.1	6.3	11.5	6.3
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°	1168.2	1168.2	1168.2	1168.2	1168.2	1168.2	1168.2	1168.2	1168.2	1168.2	1168.2
2.5°	1172.4	1165.1	1173.5	1169.3	1173.5	1172.4	1164.1	1158.8	1158.8	1149.4	1146.3
5°	1187.1	1179.8	1181.9	1172.4	1170.3	1165.1	1154.6	1150.5	1150.5	1141.0	1137.9
7.5°	1219.5	1208.0	1205.9	1187.1	1178.7	1164.1	1145.2	1137.9	1136.8	1127.4	1124.3
10°	1270.8	1257.2	1247.8	1223.7	1199.7	1170.3	1130.6	1097.1	1078.2	1053.1	1051.0
12.5°	1333.6	1316.9	1302.2	1265.6	1225.8	1159.9	1042.6	920.2	844.8	785.1	789.3
15°	1403.8	1388.1	1365.0	1309.6	1227.9	1056.2	811.3	622.9	530.7	481.5	479.4
17.5°	1480.2	1457.2	1419.5	1344.1	1162.0	807.1	527.6	372.7	324.5	307.8	303.6
20°	1551.4	1523.1	1476.0	1351.4	971.4	546.4	329.7	288.9	280.5	275.3	275.3
22.5°	1626.8	1591.2	1521.0	1294.9	722.3	349.6	280.5	271.1	264.8	257.5	256.5
25°	1703.2	1657.1	1561.8	1147.3	473.2	275.3	262.8	252.3	240.8	229.3	226.1
27.5°	1768.1	1708.4	1593.3	927.5	303.6	248.1	239.7	221.9	206.2	193.7	191.6
30°	1845.5	1769.1	1606.9	678.3	238.7	218.8	206.2	187.4	168.5	156.0	151.8
32.5°	1949.2	1865.4	1585.9	441.8	211.5	192.6	172.7	150.7	131.9	118.3	116.2
35°	2110.4	2010.9	1489.6	281.6	191.6	166.4	142.4	119.3	103.6	93.2	91.1
37.5°	2307.2	2215.1	1331.6	211.5	171.7	144.5	116.2	94.2	82.7	75.4	73.3
40°	2599.2	2470.5	1135.8	185.3	151.8	122.5	95.3	77.5	69.1	62.8	60.7
42.5°	2978.2	2772.0	910.7	168.5	132.9	102.6	77.5	63.9	56.5	52.3	51.3
45°	3421.0	3066.1	673.1	151.8	115.1	84.8	63.9	52.3	47.1	44.0	42.9
47.5°	3874.3	3323.6	464.8	134.0	98.4	70.1	53.4	45.0	40.8	36.6	35.6
50°	4357.9	3541.4	317.2	116.2	83.7	57.6	46.1	40.8	35.6	32.5	31.4
52.5°	4712.8	3622.0	220.9	100.5	71.2	49.2	40.8	36.6	32.5	28.3	27.2
55°	5040.4	3619.9	167.5	84.8	60.7	42.9	36.6	32.5	28.3	25.1	24.1
57.5°	5367.0	3591.6	131.9	72.2	52.3	38.7	32.5	28.3	26.2	22.0	20.9
60°	5578.5	3484.9	102.6	60.7	45.0	33.5	28.3	25.1	22.0	18.8	17.8
62.5°	5690.5	3336.2	78.5	48.2	36.6	29.3	25.1	22.0	18.8	15.7	14.7
65°	5538.7	3072.4	61.8	37.7	28.3	25.1	20.9	17.8	14.7	11.5	10.5
67.5°	4865.6	2590.9	48.2	30.4	22.0	18.8	17.8	14.7	10.5	8.4	7.3
70°	3438.8	1774.4	37.7	23.0	16.7	14.7	13.6	11.5	8.4	6.3	5.2
72.5°	1887.4	895.0	27.2	16.7	12.6	11.5	10.5	9.4	7.3	5.2	5.2
75°	726.5	246.0	19.9	11.5	8.4	8.4	7.3	7.3	6.3	4.2	4.2
77.5°	189.5	73.3	12.6	7.3	5.2	5.2	5.2	4.2	4.2	3.1	3.1
80°	60.7	24.1	7.3	5.2	4.2	3.1	3.1	2.1	3.1	2.1	2.1
82.5°	19.9	8.4	4.2	4.2	3.1	2.1	2.1	1.0	1.0	0.0	0.0
85°	7.3	4.2	3.1	2.1	2.1	2.1	1.0	0.0	0.0	0.0	0.0
87.5°	4.2	2.1	2.1	2.1	2.1	1.0	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)