

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: P641960

Luminaire Tested: GWS-SA6B-830-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641960
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-SA6B-830-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17150.2 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

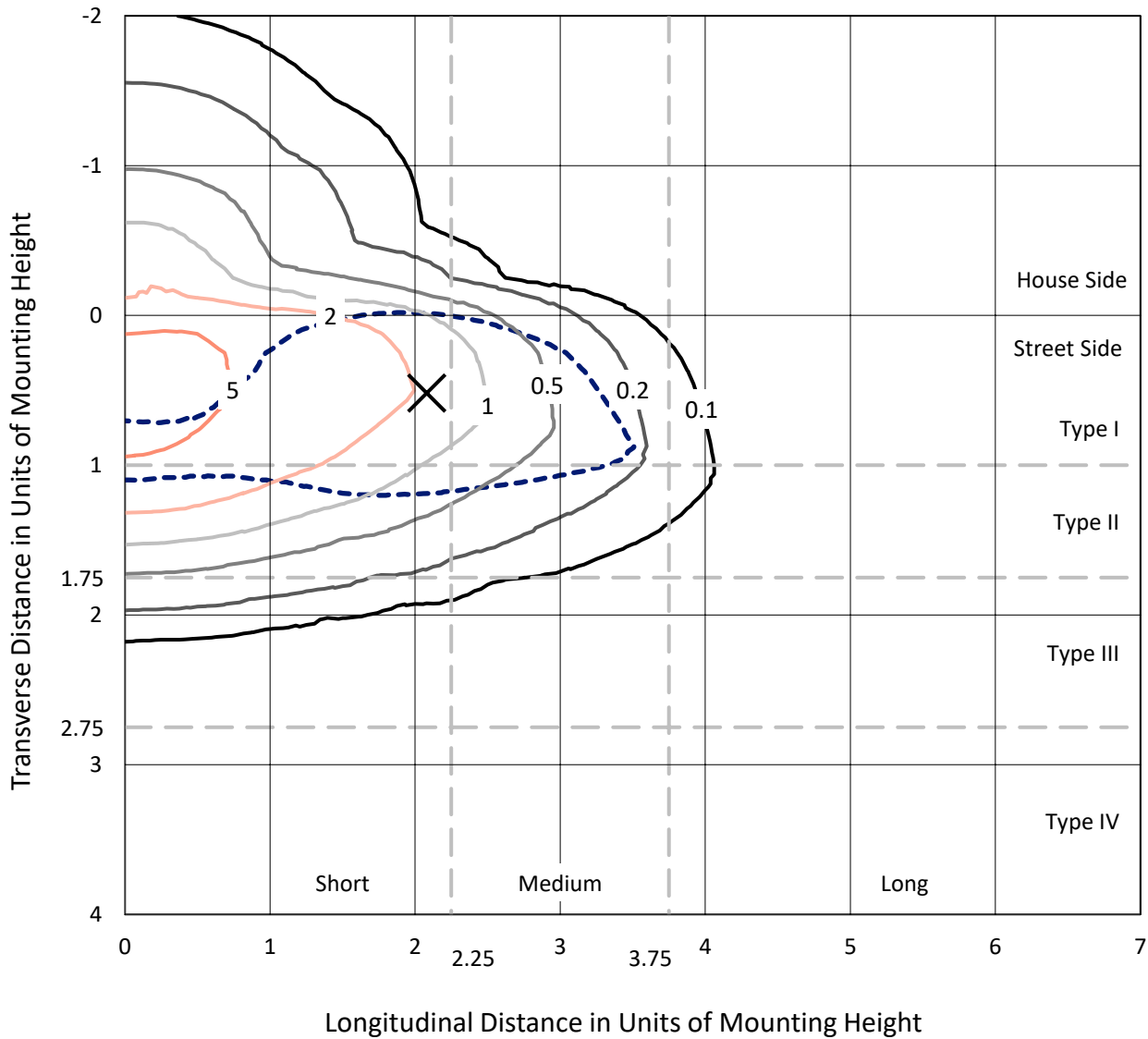
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

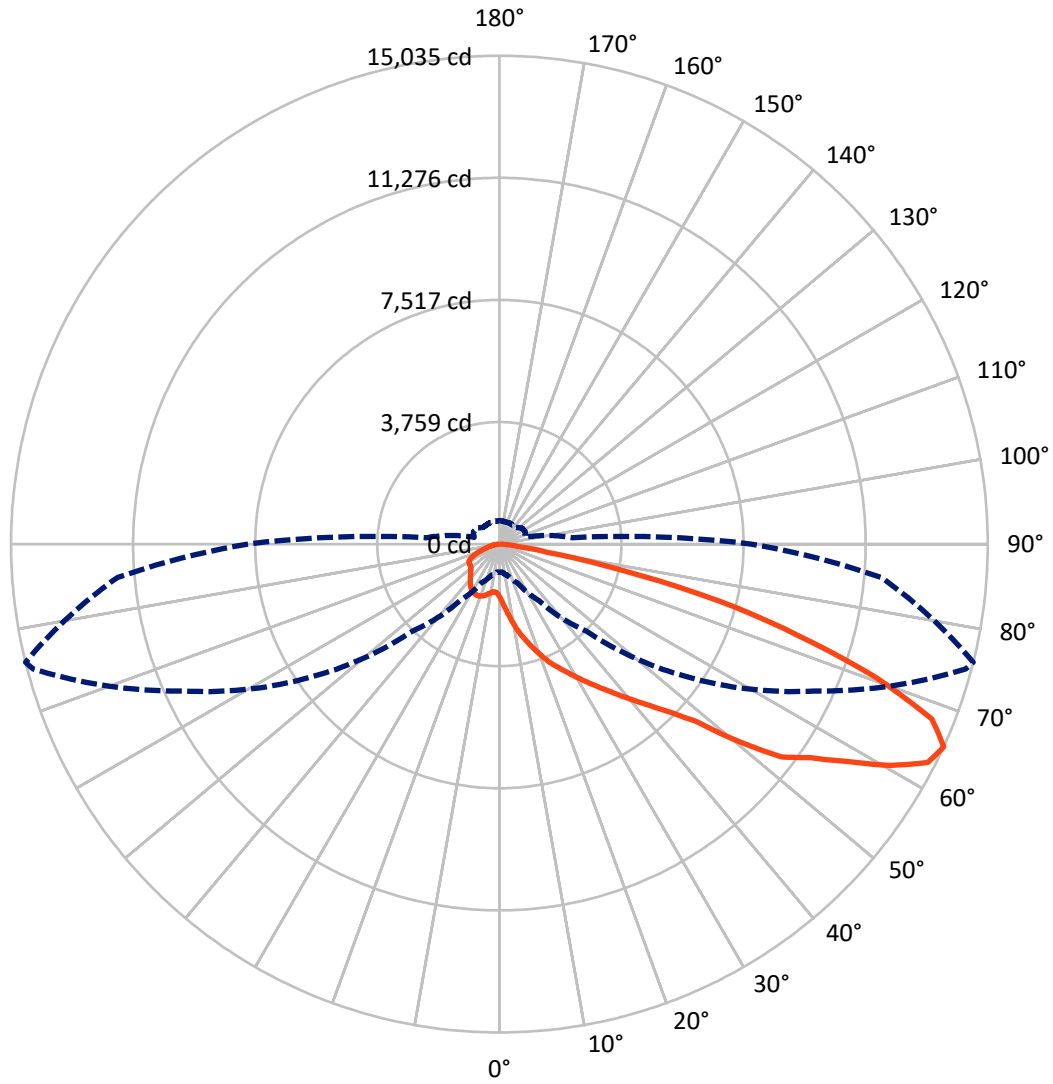
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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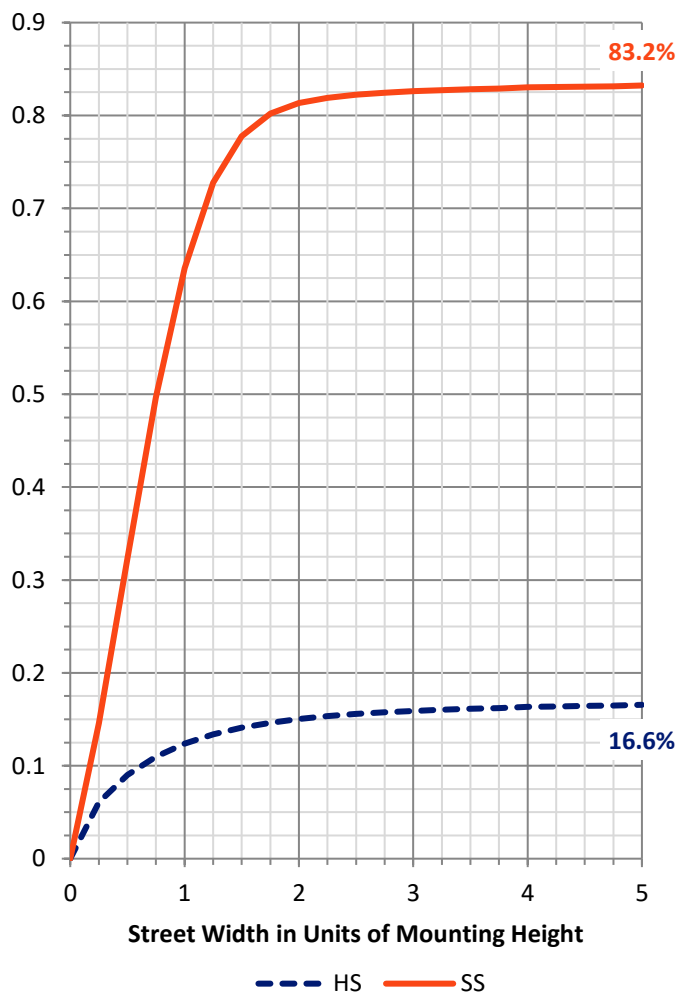
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2866.7	0.0	2866.7
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	14283.5	0.0	14283.5
	% Fixture	83.3	0.0	83.3
Total	Lumens	17150.2	0.0	17150.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.9	1.1
10°-20°	734.9	4.3
20°-30°	1432.2	8.4
30°-40°	2395.3	14.0
40°-50°	3429.7	20.0
50°-60°	4060.3	23.7
60°-70°	3376.1	19.7
70°-80°	1381.6	8.1
80°-90°	147.1	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°	17150.2	100.0
0°-180°	17150.2	100.0

Coefficient of Utilization



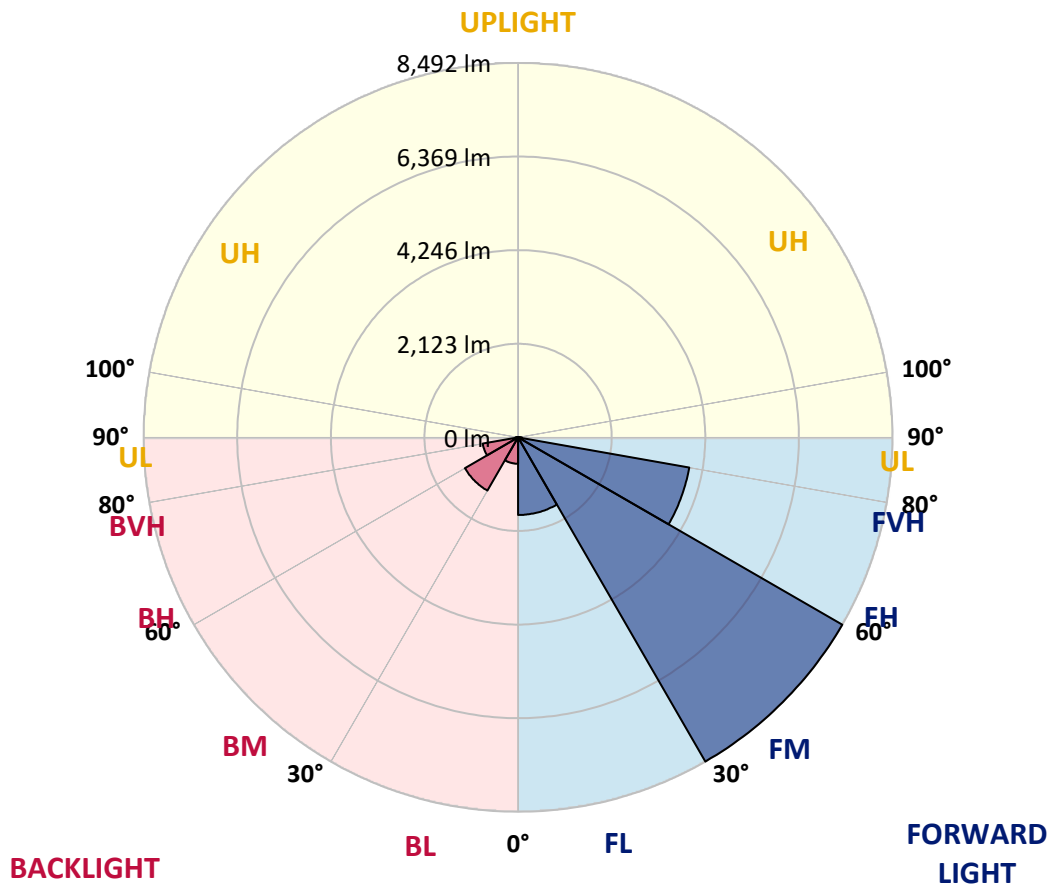
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1760.4	10.3			
FM (30°-60°)	8492.1	49.5			
FH (60°-80°)	3943.3	23.0			G2/5000
FVH (80°-90°)	87.7	0.5			G1/100
BL (0°-30°)	599.7	3.5	B2/1000		
BM (30°-60°)	1393.1	8.1	B2/2500		
BH (60°-80°)	814.5	4.7	B2/1000		G2/1000
BVH (80°-90°)	59.4	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°	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1
2.5°	2276.3	2284.8	2257.0	2247.4	2182.3	2094.3	2020.7	1909.8	1807.3	1791.7	1700.0
5°	2891.2	2855.1	2823.7	2803.2	2712.8	2612.7	2457.2	2248.6	2030.4	2003.9	1806.1
7.5°	3256.6	3250.5	3212.0	3199.9	3130.0	3029.9	2869.5	2610.3	2293.2	2249.8	1949.6
10°	3549.5	3545.9	3526.6	3537.5	3473.6	3375.9	3220.4	2952.7	2581.4	2538.0	2110.0
12.5°	3805.1	3811.2	3807.6	3847.3	3814.8	3738.8	3577.3	3283.1	2869.5	2822.5	2305.3
15°	3992.0	3996.9	4014.9	4101.7	4119.8	4104.2	3940.2	3607.4	3154.1	3086.6	2506.6
17.5°	4045.1	4054.7	4098.1	4238.0	4335.7	4400.8	4279.0	3937.8	3433.8	3360.2	2711.6
20°	4116.2	4127.1	4170.5	4316.4	4459.8	4608.1	4586.4	4273.0	3715.9	3655.6	2919.0
22.5°	4445.4	4436.9	4417.6	4487.6	4590.1	4774.5	4828.8	4594.9	4007.7	3949.8	3148.0
25°	5079.6	5063.9	4940.9	4877.0	4843.2	4955.4	5051.8	4887.9	4292.2	4205.4	3361.5
27.5°	5778.9	5770.4	5613.7	5461.8	5254.4	5206.2	5262.8	5143.5	4568.3	4480.3	3547.1
30°	6440.8	6415.5	6251.5	6061.0	5783.7	5576.3	5493.1	5394.2	4871.0	4779.3	3764.2
32.5°	7032.8	7000.2	6807.3	6596.3	6305.7	6061.0	5812.6	5660.7	5213.4	5107.3	3986.0
35°	7518.7	7486.1	7288.4	7064.1	6744.6	6563.8	6223.8	5950.1	5561.8	5454.5	4247.6
37.5°	7894.8	7864.7	7658.5	7437.9	7159.4	7015.9	6720.5	6275.6	5963.3	5851.2	4524.9
40°	8105.8	8084.1	7919.0	7744.1	7510.2	7386.0	7253.4	6686.7	6413.0	6300.9	4851.7
42.5°	8169.7	8155.3	8039.5	7949.1	7791.2	7697.1	7773.1	7170.2	6892.9	6795.3	5219.4
45°	8009.4	8009.4	7975.6	8021.4	8028.7	8027.5	8293.9	7716.4	7482.5	7375.2	5737.9
47.5°	7599.4	7626.0	7675.4	7900.9	8138.4	8337.3	8902.8	8444.6	8240.9	8152.9	6472.1
50°	6849.5	6921.8	7090.6	7530.7	8035.9	8542.3	9479.1	9521.3	9715.4	9559.9	7552.4
52.5°	5751.1	5740.3	6170.7	6797.7	7568.1	8550.7	9796.2	10471.4	10993.5	10886.1	8355.4
55°	4570.8	4552.7	4954.2	5818.6	6850.7	8227.6	9986.7	10906.6	11702.4	11605.9	9077.6
57.5°	3500.1	3477.2	3834.1	4614.2	5837.9	7541.6	9950.5	11425.1	12677.8	12628.4	10059.0
60°	2409.0	2381.2	2715.2	3397.6	4639.5	6492.6	9550.2	11691.5	13819.6	13836.5	11109.2
62.5°	1446.8	1431.2	1673.5	2202.8	3337.3	5192.9	8613.4	11530.0	14728.7	14804.6	11784.4
65°	872.9	862.1	1004.3	1314.2	2117.2	3789.5	7169.0	10704.1	14860.1	15034.9	11800.1
67.5°	635.4	636.6	677.6	800.6	1234.6	2447.5	5379.8	9223.5	14175.3	14356.1	11056.2
70°	552.2	554.6	576.3	604.0	746.3	1401.0	3497.7	7281.1	12150.9	12290.8	9272.9
72.5°	490.7	490.7	505.2	519.7	583.6	853.6	1873.6	5089.2	9590.0	9627.4	7077.4
75°	431.6	428.0	435.3	442.5	506.4	596.8	911.5	3545.9	7083.4	6996.6	4574.4
77.5°	343.6	340.0	341.2	348.4	406.3	426.8	461.8	2214.8	3992.0	3767.8	2020.7
80°	244.8	242.3	255.6	273.7	300.2	261.6	289.4	1071.9	1583.1	1473.3	783.7
82.5°	145.9	150.7	171.2	185.7	207.4	164.0	186.9	358.1	560.6	546.2	318.3
85°	20.5	21.7	61.5	71.1	89.2	63.9	98.9	161.6	224.3	239.9	112.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.4	28.9	63.9	65.1	27.7
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°	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1
2.5°	1653.0	1596.3	1515.5	1448.0	1391.4	1345.5	1307.0	1278.0	1269.6	1257.5	1257.5
5°	1713.3	1610.8	1466.1	1363.6	1304.6	1269.6	1245.5	1233.4	1227.4	1220.2	1216.5
7.5°	1796.5	1653.0	1457.7	1354.0	1308.2	1286.5	1270.8	1263.6	1258.7	1251.5	1251.5
10°	1911.0	1715.7	1484.2	1387.7	1351.6	1329.9	1311.8	1299.7	1288.9	1278.0	1275.6
12.5°	2035.2	1797.7	1532.4	1433.6	1395.0	1368.5	1343.1	1325.1	1311.8	1298.5	1294.9
15°	2172.6	1882.1	1584.3	1478.2	1429.9	1393.8	1363.6	1335.9	1317.8	1298.5	1296.1
17.5°	2307.7	1967.7	1627.7	1508.3	1446.8	1402.2	1358.8	1322.6	1299.7	1278.0	1272.0
20°	2469.2	2053.3	1657.8	1516.8	1443.2	1384.1	1332.3	1286.5	1261.1	1235.8	1232.2
22.5°	2617.5	2132.9	1672.3	1504.7	1415.5	1345.5	1285.3	1235.8	1208.1	1182.8	1178.0
25°	2761.0	2202.8	1666.3	1475.8	1373.3	1292.5	1229.8	1180.4	1153.8	1127.3	1120.1
27.5°	2899.7	2249.8	1642.1	1431.2	1320.2	1233.4	1173.1	1128.5	1105.6	1082.7	1073.1
30°	3035.9	2293.2	1604.8	1373.3	1252.7	1171.9	1122.5	1091.1	1068.2	1044.1	1036.9
32.5°	3173.4	2324.6	1548.1	1305.8	1184.0	1117.7	1087.5	1064.6	1040.5	1016.4	1009.2
35°	3312.0	2337.8	1479.4	1228.6	1126.1	1082.7	1071.9	1045.3	1012.8	983.8	974.2
37.5°	3477.2	2349.9	1393.8	1152.6	1075.5	1065.8	1063.4	1023.6	985.0	945.3	934.4
40°	3676.1	2365.6	1305.8	1083.9	1034.5	1059.8	1050.2	995.9	918.7	880.2	868.1
42.5°	3919.7	2394.5	1214.1	1021.2	1004.3	1036.9	1026.0	928.4	876.5	854.8	848.8
45°	4277.8	2500.6	1122.5	971.8	981.4	1004.3	987.5	888.6	868.1	853.6	846.4
47.5°	4915.6	2663.4	1042.9	934.4	963.3	975.4	910.3	877.7	862.1	842.8	834.3
50°	5578.7	2734.5	979.0	911.5	942.8	948.9	868.1	863.3	852.4	831.9	823.5
52.5°	6027.2	2724.9	940.4	903.1	926.0	903.1	848.8	847.6	840.4	816.3	806.6
55°	6533.6	2741.7	923.6	905.5	918.7	825.9	824.7	828.3	824.7	798.2	793.3
57.5°	7217.2	2793.6	915.1	913.9	913.9	788.5	801.8	806.6	799.4	787.3	783.7
60°	7874.3	2797.2	899.4	923.6	910.3	765.6	775.3	780.1	771.6	769.2	768.0
62.5°	8121.5	2623.6	864.5	916.3	895.8	740.3	747.5	749.9	741.5	747.5	746.3
65°	7753.8	2254.6	806.6	881.4	851.2	717.4	712.6	718.6	704.1	719.8	721.0
67.5°	6884.5	1791.7	718.6	815.0	788.5	692.1	682.4	682.4	658.3	682.4	681.2
70°	5551.0	1266.0	589.6	708.9	719.8	661.9	657.1	629.4	590.8	627.0	623.3
72.5°	4207.8	909.1	464.2	560.6	619.7	619.7	620.9	573.9	529.3	546.2	531.7
75°	2665.8	640.2	371.4	429.2	485.9	543.8	571.5	484.7	444.9	437.7	430.4
77.5°	1200.9	420.8	289.4	329.2	344.8	429.2	522.1	417.2	362.9	347.2	342.4
80°	502.8	261.6	206.2	232.7	212.2	360.5	460.6	324.3	266.5	244.8	229.1
82.5°	220.6	155.5	131.4	125.4	132.6	267.7	343.6	215.8	166.4	225.5	227.9
85°	92.8	82.0	67.5	61.5	54.3	102.5	161.6	84.4	103.7	59.1	48.2
87.5°	21.7	24.1	18.1	12.1	7.2	1.2	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)