

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: P637230

Luminaire Tested: GWS-SA4C-735-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637230
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-SA4C-735-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19522.3 lumens
Efficiency: N/A
Efficacy: 151.9 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): 128.5
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

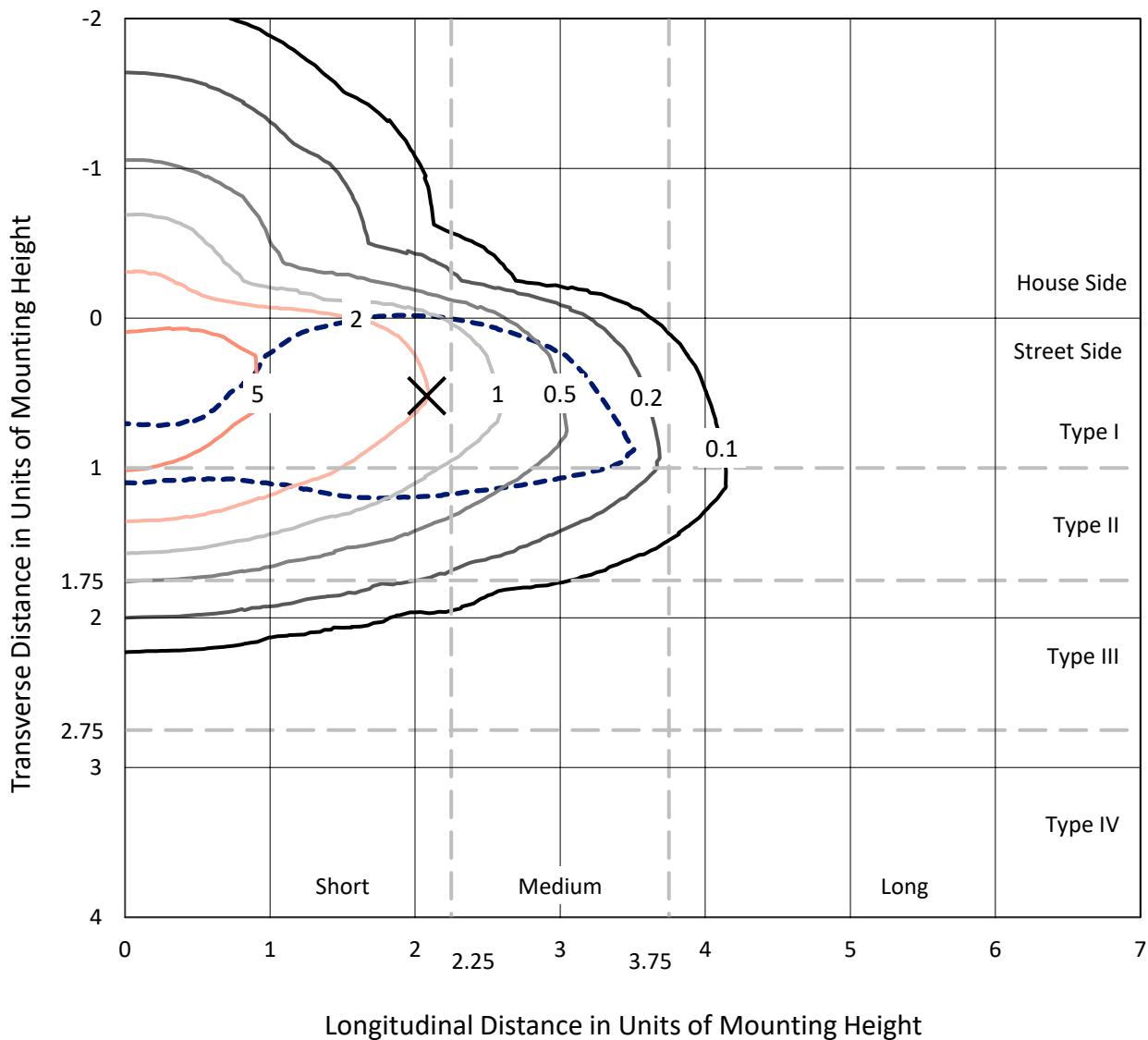


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Iso-Footcandle Lines of Horizontal Illumination

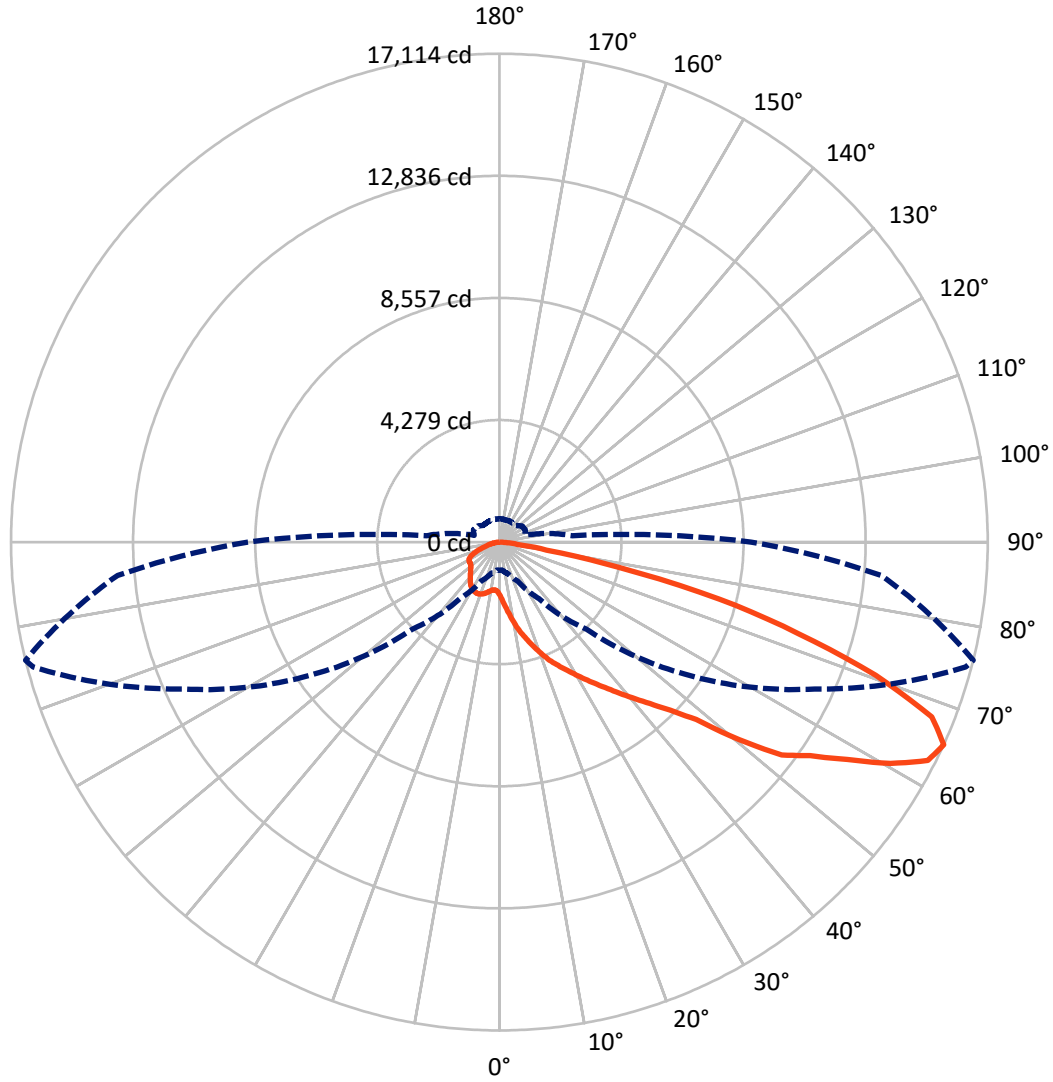
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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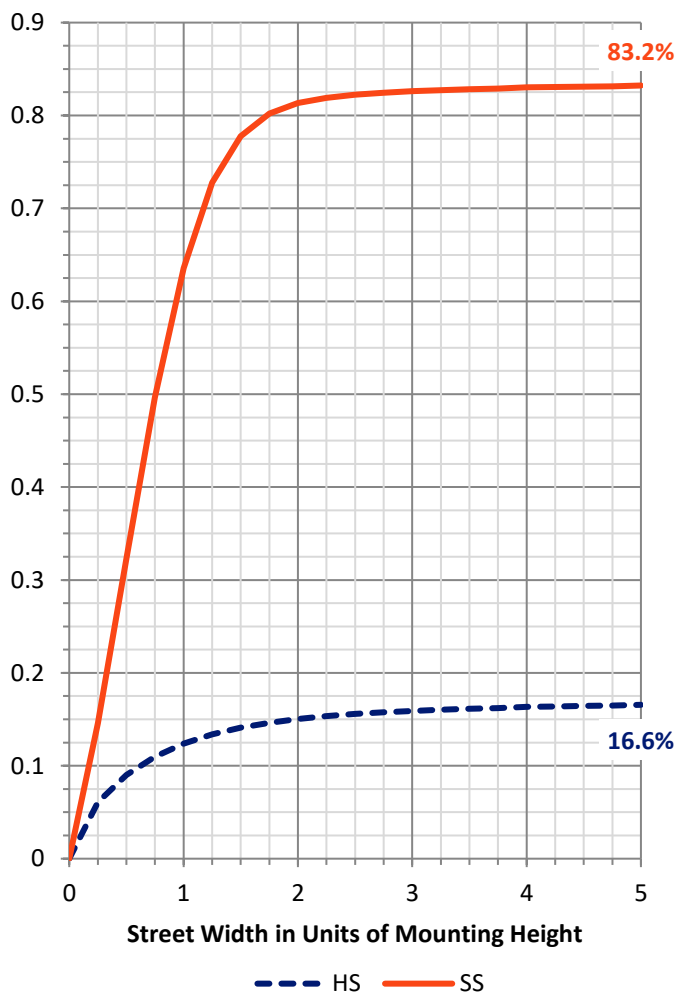
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3263.2	0.0	3263.2
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	16259.1	0.0	16259.1
	% Fixture	83.3	0.0	83.3
Total	Lumens	19522.3	0.0	19522.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.6	1.1
10°-20°	836.6	4.3
20°-30°	1630.3	8.4
30°-40°	2726.7	14.0
40°-50°	3904.0	20.0
50°-60°	4621.8	23.7
60°-70°	3843.1	19.7
70°-80°	1572.7	8.1
80°-90°	167.4	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°	19522.3	100.0
0°-180°	19522.3	100.0

Coefficient of Utilization



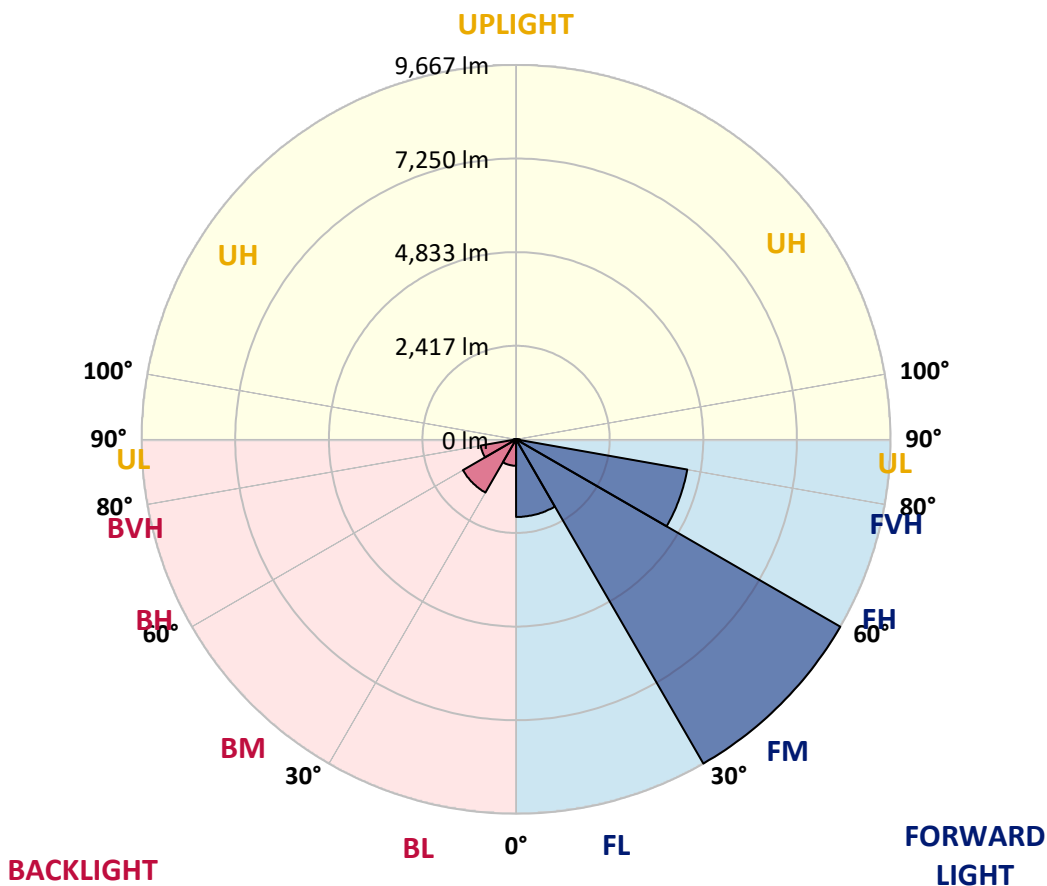
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2003.9	10.3			
FM (30°-60°)	9666.7	49.5			
FH (60°-80°)	4488.7	23.0			G2/5000
FVH (80°-90°)	99.9	0.5			G1/100
BL (0°-30°)	682.7	3.5	B2/1000		
BM (30°-60°)	1585.8	8.1	B2/2500		
BH (60°-80°)	927.1	4.7	B2/1000		G2/1000
BVH (80°-90°)	67.6	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°	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7
2.5°	2591.2	2600.8	2569.2	2558.2	2484.1	2383.9	2300.2	2174.0	2057.3	2039.5	1935.2
5°	3291.1	3250.0	3214.3	3190.9	3088.0	2974.1	2797.1	2559.6	2311.2	2281.0	2055.9
7.5°	3707.0	3700.1	3656.2	3642.5	3562.9	3449.0	3266.4	2971.4	2610.4	2561.0	2219.3
10°	4040.5	4036.4	4014.4	4026.8	3954.0	3842.9	3665.8	3361.1	2938.4	2889.0	2401.8
12.5°	4331.5	4338.3	4334.2	4379.5	4342.4	4256.0	4072.1	3737.2	3266.4	3212.9	2624.1
15°	4544.2	4549.7	4570.3	4669.1	4689.7	4671.8	4485.2	4106.4	3590.3	3513.5	2853.3
17.5°	4604.6	4615.5	4665.0	4824.2	4935.3	5009.4	4870.8	4482.4	3908.7	3825.0	3086.6
20°	4685.5	4697.9	4747.3	4913.4	5076.7	5245.5	5220.8	4864.0	4229.9	4161.3	3322.7
22.5°	5060.2	5050.6	5028.7	5108.3	5224.9	5434.9	5496.7	5230.4	4562.0	4496.1	3583.5
25°	5782.1	5764.3	5624.3	5551.6	5513.1	5640.8	5750.6	5563.9	4885.9	4787.1	3826.4
27.5°	6578.2	6568.5	6390.1	6217.2	5981.1	5926.2	5990.7	5854.9	5200.2	5100.0	4037.7
30°	7331.6	7302.8	7116.2	6899.3	6583.6	6347.6	6252.9	6140.3	5544.7	5440.4	4284.8
32.5°	8005.5	7968.4	7748.9	7508.7	7177.9	6899.3	6616.6	6443.7	5934.5	5813.7	4537.3
35°	8558.6	8521.5	8296.5	8041.2	7677.5	7471.6	7084.6	6773.0	6331.1	6209.0	4835.1
37.5°	8986.8	8952.5	8717.8	8466.6	8149.6	7986.3	7650.0	7143.6	6788.1	6660.5	5150.8
40°	9227.0	9202.3	9014.2	8815.2	8549.0	8407.6	8256.7	7611.6	7300.1	7172.4	5522.7
42.5°	9299.7	9283.2	9151.5	9048.6	8868.8	8761.7	8848.2	8162.0	7846.3	7735.1	5941.3
45°	9117.2	9117.2	9078.8	9130.9	9139.1	9137.8	9441.1	8783.7	8517.4	8395.3	6531.5
47.5°	8650.6	8680.7	8737.0	8993.7	9264.0	9490.5	10134.2	9612.6	9380.7	9280.5	7367.3
50°	7796.9	7879.2	8071.4	8572.3	9147.4	9723.8	10790.2	10838.2	11059.2	10882.2	8597.0
52.5°	6546.6	6534.2	7024.2	7737.9	8614.9	9733.4	11151.2	11919.7	12514.0	12391.8	9511.1
55°	5203.0	5182.4	5639.4	6623.4	7798.3	9365.6	11368.0	12415.2	13321.0	13211.2	10333.2
57.5°	3984.2	3958.1	4364.4	5252.4	6645.4	8584.7	11326.8	13005.3	14431.3	14375.0	11450.3
60°	2742.2	2710.6	3090.8	3867.6	5281.2	7390.6	10871.2	13308.6	15731.0	15750.2	12645.8
62.5°	1646.9	1629.1	1905.0	2507.5	3798.9	5911.1	9804.8	13124.7	16765.8	16852.3	13414.3
65°	993.7	981.3	1143.3	1496.0	2410.0	4313.6	8160.6	12184.6	16915.4	17114.4	13432.2
67.5°	723.3	724.7	771.3	911.3	1405.4	2786.1	6123.9	10499.2	16135.9	16341.8	12585.4
70°	628.6	631.3	656.0	687.6	849.5	1594.8	3981.5	8288.2	13831.5	13990.8	10555.5
72.5°	558.6	558.6	575.1	591.5	664.3	971.7	2132.8	5793.1	10916.5	10959.0	8056.3
75°	491.3	487.2	495.5	503.7	576.4	679.4	1037.6	4036.4	8063.1	7964.3	5207.1
77.5°	391.1	387.0	388.4	396.6	462.5	485.8	525.6	2521.2	4544.2	4288.9	2300.2
80°	278.6	275.9	291.0	311.5	341.7	297.8	329.4	1220.1	1802.0	1677.1	892.1
82.5°	166.1	171.6	194.9	211.4	236.1	186.7	212.7	407.6	638.2	621.7	362.3
85°	23.3	24.7	70.0	81.0	101.6	72.7	112.5	183.9	255.3	273.1	127.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.6	32.9	72.7	74.1	31.6
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°	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7	1848.7
2.5°	1881.6	1817.1	1725.2	1648.3	1583.8	1531.7	1487.7	1454.8	1445.2	1431.5	1431.5
5°	1950.3	1833.6	1668.9	1552.2	1485.0	1445.2	1417.7	1404.0	1397.2	1388.9	1384.8
7.5°	2044.9	1881.6	1659.3	1541.3	1489.1	1464.4	1446.6	1438.3	1432.8	1424.6	1424.6
10°	2175.3	1953.0	1689.5	1579.7	1538.5	1513.8	1493.2	1479.5	1467.1	1454.8	1452.1
12.5°	2316.7	2046.3	1744.4	1631.8	1587.9	1557.7	1528.9	1508.3	1493.2	1478.1	1474.0
15°	2473.2	2142.4	1803.4	1682.6	1627.7	1586.6	1552.2	1520.7	1500.1	1478.1	1475.4
17.5°	2626.9	2239.8	1852.8	1716.9	1646.9	1596.2	1546.8	1505.6	1479.5	1454.8	1447.9
20°	2810.8	2337.3	1887.1	1726.5	1642.8	1575.6	1516.6	1464.4	1435.6	1406.8	1402.6
22.5°	2979.6	2427.9	1903.6	1712.8	1611.3	1531.7	1463.0	1406.8	1375.2	1346.4	1340.9
25°	3142.9	2507.5	1896.7	1679.9	1563.2	1471.3	1399.9	1343.6	1313.4	1283.2	1275.0
27.5°	3300.7	2561.0	1869.3	1629.1	1502.8	1404.0	1335.4	1284.6	1258.5	1232.5	1221.5
30°	3455.8	2610.4	1826.7	1563.2	1426.0	1334.0	1277.8	1242.1	1216.0	1188.5	1180.3
32.5°	3612.3	2646.1	1762.2	1486.4	1347.7	1272.3	1237.9	1211.9	1184.4	1157.0	1148.7
35°	3770.1	2661.2	1684.0	1398.5	1281.9	1232.5	1220.1	1189.9	1152.9	1119.9	1108.9
37.5°	3958.1	2674.9	1586.6	1312.1	1224.2	1213.2	1210.5	1165.2	1121.3	1076.0	1063.6
40°	4184.6	2692.7	1486.4	1233.8	1177.6	1206.4	1195.4	1133.6	1045.8	1001.9	988.2
42.5°	4461.8	2725.7	1382.1	1162.5	1143.3	1180.3	1168.0	1056.8	997.8	973.1	966.2
45°	4869.5	2846.5	1277.8	1106.2	1117.2	1143.3	1124.0	1011.5	988.2	971.7	963.5
47.5°	5595.5	3031.7	1187.2	1063.6	1096.6	1110.3	1036.2	999.1	981.3	959.3	949.7
50°	6350.3	3112.7	1114.4	1037.6	1073.3	1080.1	988.2	982.7	970.3	947.0	937.4
52.5°	6860.9	3101.7	1070.5	1028.0	1054.0	1028.0	966.2	964.8	956.6	929.1	918.2
55°	7437.3	3121.0	1051.3	1030.7	1045.8	940.1	938.8	942.9	938.8	908.6	903.1
57.5°	8215.5	3180.0	1041.7	1040.3	1040.3	897.6	912.7	918.2	909.9	896.2	892.1
60°	8963.5	3184.1	1023.8	1051.3	1036.2	871.5	882.5	888.0	878.4	875.6	874.3
62.5°	9244.8	2986.5	984.0	1043.1	1019.7	842.7	850.9	853.7	844.1	850.9	849.5
65°	8826.2	2566.5	918.2	1003.3	968.9	816.6	811.1	818.0	801.5	819.4	820.7
67.5°	7836.7	2039.5	818.0	927.8	897.6	787.8	776.8	776.8	749.4	776.8	775.4
70°	6318.8	1441.1	671.1	807.0	819.4	753.5	748.0	716.4	672.5	713.7	709.6
72.5°	4789.8	1034.8	528.4	638.2	705.4	705.4	706.8	653.3	602.5	621.7	605.3
75°	3034.5	728.8	422.7	488.6	553.1	619.0	650.5	551.7	506.4	498.2	490.0
77.5°	1367.0	479.0	329.4	374.7	392.5	488.6	594.3	474.9	413.1	395.3	389.8
80°	572.3	297.8	234.7	264.9	241.6	410.4	524.3	369.2	303.3	278.6	260.8
82.5°	251.2	177.0	149.6	142.7	151.0	304.7	391.1	245.7	189.4	256.6	259.4
85°	105.7	93.3	76.9	70.0	61.8	116.7	183.9	96.1	118.0	67.3	54.9
87.5°	24.7	27.4	20.6	13.7	8.2	1.4	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)