

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: P635797

Luminaire Tested: GWS-SA3E-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-740-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14741.9 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

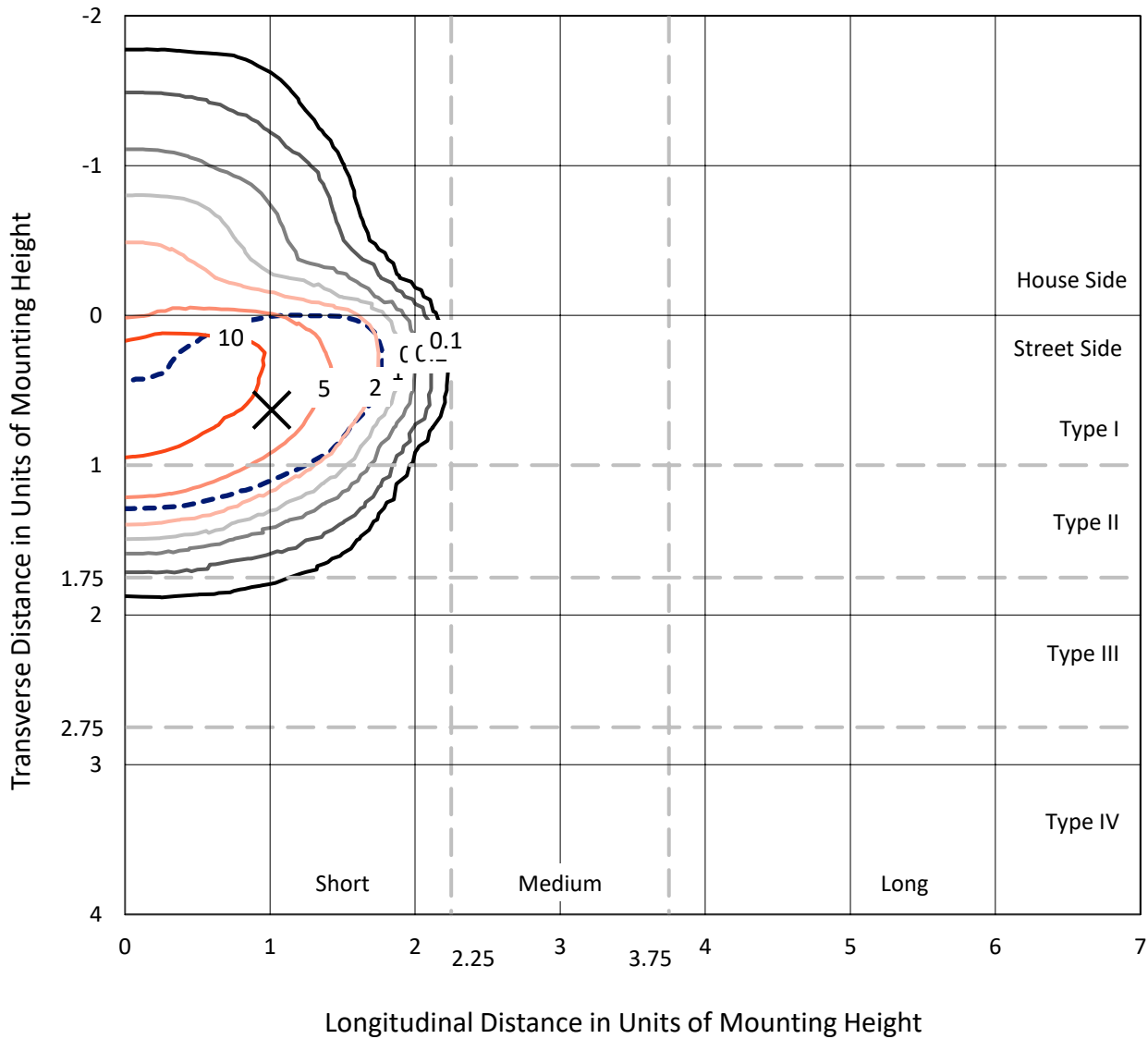
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

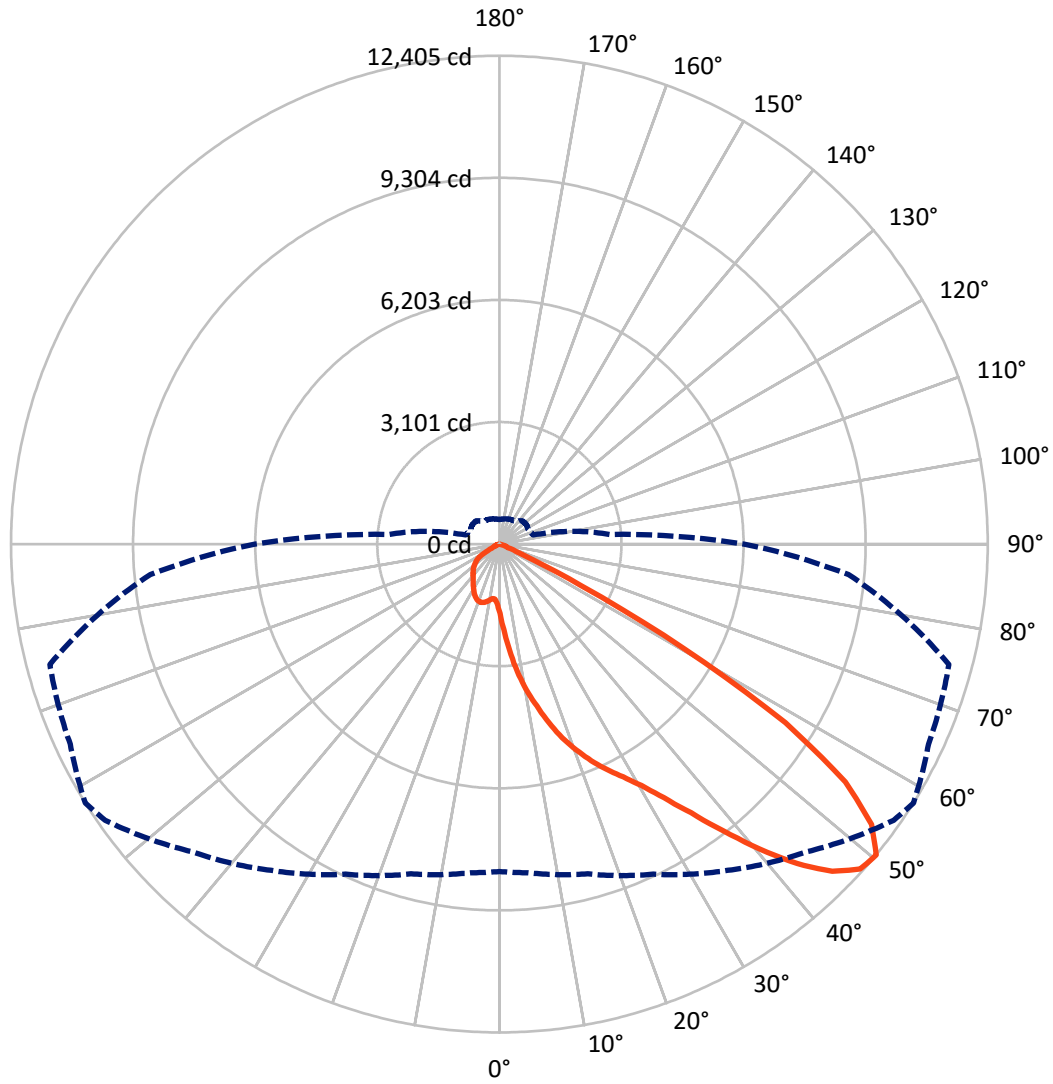
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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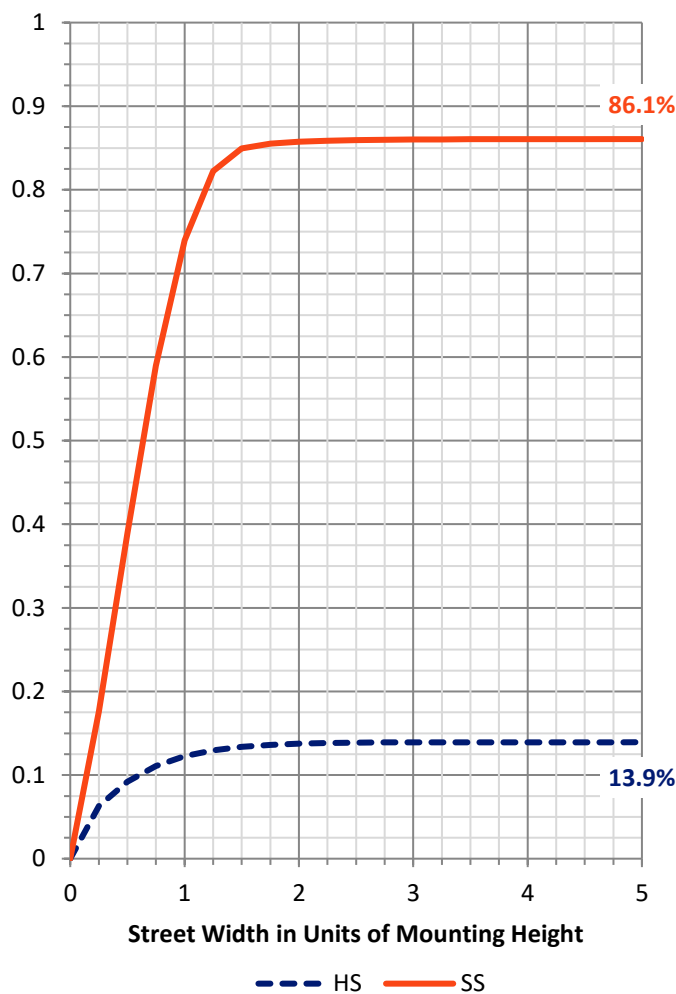
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2064.8	0.0	2064.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12677.1	0.0	12677.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	14741.9	0.0	14741.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.1	1.5
10°-20°	863.6	5.9
20°-30°	1747.5	11.9
30°-40°	3091.5	21.0
40°-50°	4506.8	30.6
50°-60°	3612.3	24.5
60°-70°	650.8	4.4
70°-80°	51.3	0.3
80°-90°	0.0	0.0
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°	14741.9	100.0
0°-180°	14741.9	100.0

Coefficient of Utilization



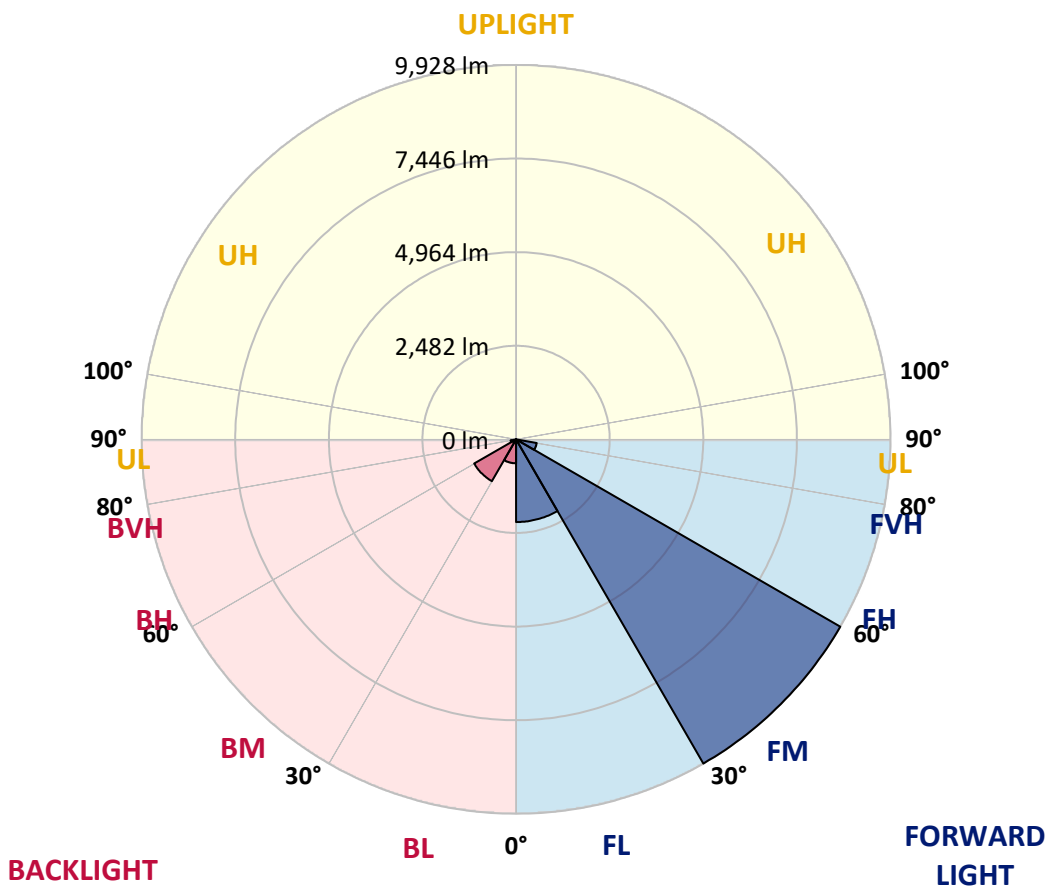
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2193.6	14.9			
FM (30°-60°)	9928.2	67.3			
FH (60°-80°)	555.3	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	635.7	4.3	B2/1000		
BM (30°-60°)	1282.3	8.7	B2/2500		
BH (60°-80°)	146.8	1.0	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9
2.5°	2605.9	2564.9	2541.2	2522.3	2438.8	2306.3	2219.6	2173.9	2098.3	1970.6	1860.2
5°	3400.4	3370.5	3315.3	3277.4	3170.2	2982.6	2788.7	2711.5	2539.7	2251.2	1992.6
7.5°	3926.9	3904.9	3884.4	3833.9	3733.0	3562.8	3348.4	3268.0	3003.1	2593.3	2169.2
10°	4332.1	4314.7	4291.1	4289.5	4210.7	4057.8	3848.1	3764.6	3477.6	2965.3	2377.3
12.5°	4688.4	4674.2	4669.4	4713.6	4663.1	4549.6	4322.6	4218.6	3914.3	3345.2	2607.4
15°	4932.7	4929.6	4950.1	5036.8	5065.1	5013.1	4822.4	4710.4	4360.5	3726.7	2861.3
17.5°	5044.6	5054.1	5093.5	5243.3	5369.4	5413.5	5266.9	5172.3	4803.4	4113.0	3132.4
20°	5235.4	5232.2	5255.9	5397.8	5552.3	5709.9	5665.8	5585.4	5251.2	4521.3	3433.5
22.5°	5773.0	5727.2	5676.8	5698.9	5754.0	5938.5	6020.5	5979.5	5713.1	4940.6	3744.1
25°	6599.0	6551.7	6389.4	6231.7	6127.7	6211.2	6323.1	6343.6	6171.8	5371.0	4068.8
27.5°	7475.5	7433.0	7250.1	7013.6	6715.7	6570.6	6654.2	6695.2	6622.7	5883.3	4414.1
30°	8296.9	8240.1	8039.9	7746.7	7401.4	7179.2	7084.6	7112.9	7155.5	6490.2	4819.2
32.5°	9009.4	8966.8	8727.2	8418.2	8085.6	7853.9	7633.2	7680.5	7784.5	7232.8	5337.9
35°	9613.2	9591.1	9337.3	9029.9	8678.4	8560.1	8370.9	8380.4	8484.5	8129.8	5970.0
37.5°	10138.1	10100.3	9870.2	9584.8	9305.8	9286.9	9234.8	9239.6	9293.2	9174.9	6696.8
40°	10469.2	10434.5	10270.6	10094.0	9895.4	9898.5	10168.1	10188.6	10127.1	10201.2	7464.5
42.5°	10593.7	10568.5	10480.2	10481.8	10461.3	10554.3	11060.4	11098.2	10877.5	11006.8	8120.3
45°	10377.8	10366.7	10373.0	10600.0	10846.0	11132.9	11790.3	11856.5	11544.3	11541.2	8632.6
47.5°	9681.0	9658.9	9843.4	10229.6	10798.7	11356.7	12231.7	12334.1	12011.0	11847.0	8954.2
50°	8315.8	8378.8	8670.5	9250.6	10116.1	11049.3	12226.9	12405.1	12028.3	11820.2	8900.6
52.5°	6023.6	6011.0	6649.5	7447.1	8500.2	10065.6	11577.4	11837.6	11607.4	11557.0	8780.8
55°	3277.4	3392.5	3822.9	4879.1	6193.9	8203.8	10094.0	10661.5	10928.0	11460.8	8996.8
57.5°	1204.4	1254.9	1524.4	2271.7	3279.0	5101.4	7710.4	8566.4	9389.3	11192.8	8960.5
60°	485.5	495.0	602.2	835.5	1377.8	2596.4	4625.3	5385.2	6160.8	8568.0	6876.5
62.5°	353.1	365.7	408.3	488.7	696.8	1135.0	1994.2	2319.0	2534.9	4243.8	3387.8
65°	285.3	294.8	329.5	365.7	460.3	610.1	643.2	619.5	616.4	1097.2	777.2
67.5°	236.5	245.9	271.1	296.4	331.1	304.3	220.7	231.7	189.2	187.6	152.9
70°	173.4	184.4	209.7	236.5	198.6	82.0	127.7	189.2	143.5	119.8	116.7
72.5°	130.8	138.7	162.4	154.5	58.3	31.5	85.1	137.2	110.4	88.3	86.7
75°	97.7	102.5	82.0	25.2	6.3	7.9	31.5	56.8	61.5	50.4	50.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	4.7	6.3	7.9	9.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9	1760.9
2.5°	1797.2	1730.9	1636.4	1557.5	1497.6	1439.3	1395.2	1351.0	1349.4	1327.4	1322.6
5°	1872.8	1753.0	1579.6	1455.1	1379.4	1333.7	1302.1	1286.4	1278.5	1270.6	1267.5
7.5°	1981.6	1809.8	1570.1	1437.7	1374.7	1344.7	1322.6	1313.2	1308.5	1302.1	1300.6
10°	2115.6	1891.7	1604.8	1470.8	1415.7	1387.3	1363.6	1349.4	1341.6	1330.5	1327.4
12.5°	2276.4	1992.6	1660.0	1526.0	1467.7	1429.8	1398.3	1377.8	1366.8	1352.6	1349.4
15°	2449.8	2101.4	1721.5	1576.4	1507.1	1458.2	1418.8	1387.3	1366.8	1349.4	1344.7
17.5°	2629.5	2211.8	1776.7	1611.1	1526.0	1467.7	1410.9	1368.4	1343.1	1321.1	1314.8
20°	2831.3	2325.3	1812.9	1617.4	1519.7	1442.5	1376.2	1322.6	1297.4	1267.5	1261.2
22.5°	3042.5	2430.9	1828.7	1603.2	1485.0	1395.2	1324.2	1269.0	1232.8	1201.3	1191.8
25°	3247.5	2525.5	1820.8	1563.8	1433.0	1328.9	1256.4	1199.7	1160.3	1128.7	1120.9
27.5°	3465.0	2604.3	1792.4	1505.5	1362.1	1256.4	1187.1	1138.2	1101.9	1067.3	1059.4
30°	3709.4	2676.8	1746.7	1434.6	1278.5	1182.3	1128.7	1095.6	1056.2	1020.0	1008.9
32.5°	4004.2	2741.4	1680.5	1349.4	1204.4	1117.7	1087.8	1062.5	1016.8	979.0	971.1
35°	4341.5	2795.0	1596.9	1261.2	1131.9	1076.7	1070.4	1037.3	977.4	933.3	923.8
37.5°	4732.5	2847.1	1497.6	1174.5	1078.3	1057.8	1059.4	1002.6	930.1	876.5	870.2
40°	5153.4	2899.1	1387.3	1098.8	1029.4	1046.8	1032.6	952.2	833.9	781.9	775.6
42.5°	5591.7	2955.8	1275.3	1027.8	988.4	1004.2	983.7	851.3	766.2	739.4	736.2
45°	5987.4	3023.6	1154.0	956.9	947.4	942.7	908.0	770.9	734.6	715.7	714.1
47.5°	6272.7	3012.6	1024.7	889.1	903.3	887.5	781.9	733.0	703.1	677.9	671.6
50°	6220.7	2820.3	890.7	813.4	846.6	832.4	703.1	688.9	662.1	635.3	625.9
52.5°	6088.2	2558.6	774.0	733.0	785.1	752.0	649.5	635.3	611.7	577.0	565.9
55°	6159.2	2312.7	682.6	668.4	722.0	622.7	589.6	567.5	542.3	504.5	499.7
57.5°	5930.6	1887.0	548.6	558.1	638.5	531.3	517.1	482.4	439.8	414.6	411.5
60°	4105.1	1013.7	343.7	354.7	461.9	446.1	463.5	431.9	379.9	356.3	351.5
62.5°	1885.4	406.7	187.6	179.7	242.8	302.7	397.3	394.1	329.5	291.6	288.5
65°	457.2	186.0	134.0	126.1	137.2	181.3	258.5	310.6	266.4	222.3	217.6
67.5°	148.2	151.3	123.0	115.1	121.4	135.6	154.5	171.8	170.3	156.1	152.9
70°	118.2	137.2	113.5	104.0	104.0	108.8	104.0	83.6	72.5	78.8	82.0
72.5°	88.3	104.0	89.9	80.4	77.2	75.7	64.6	47.3	33.1	30.0	28.4
75°	52.0	58.3	55.2	47.3	44.1	39.4	31.5	20.5	11.0	7.9	4.7
77.5°	9.5	11.0	12.6	9.5	7.9	6.3	4.7	1.6	0.0	0.0	0.0
80°	0.0	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)