

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: P637667

Luminaire Tested: GWS-SA4D-730-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637667  
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-SA4D-730-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

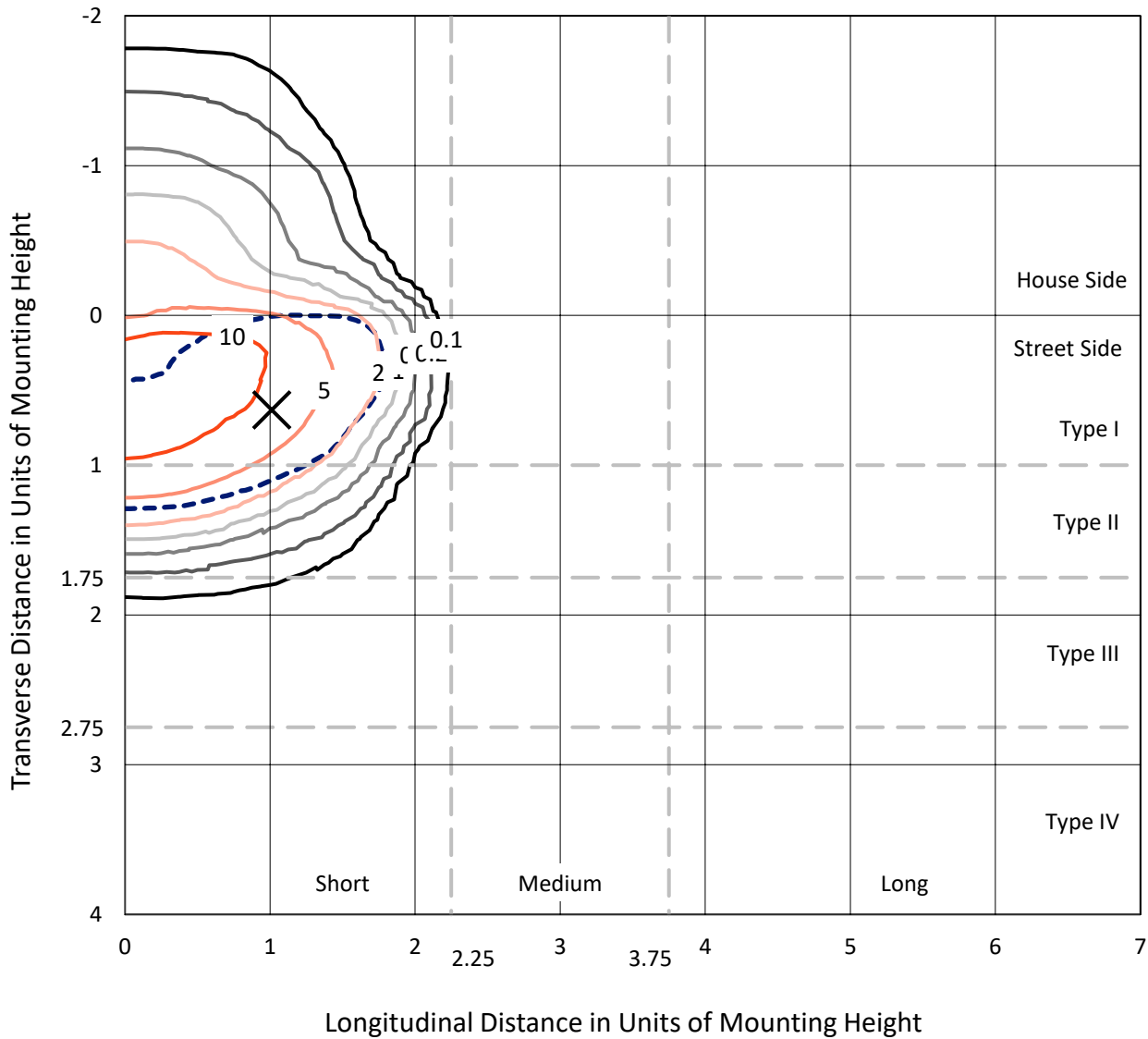
Lumens per Lamp: N/A  
Luminaire Lumens: 14948.7 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

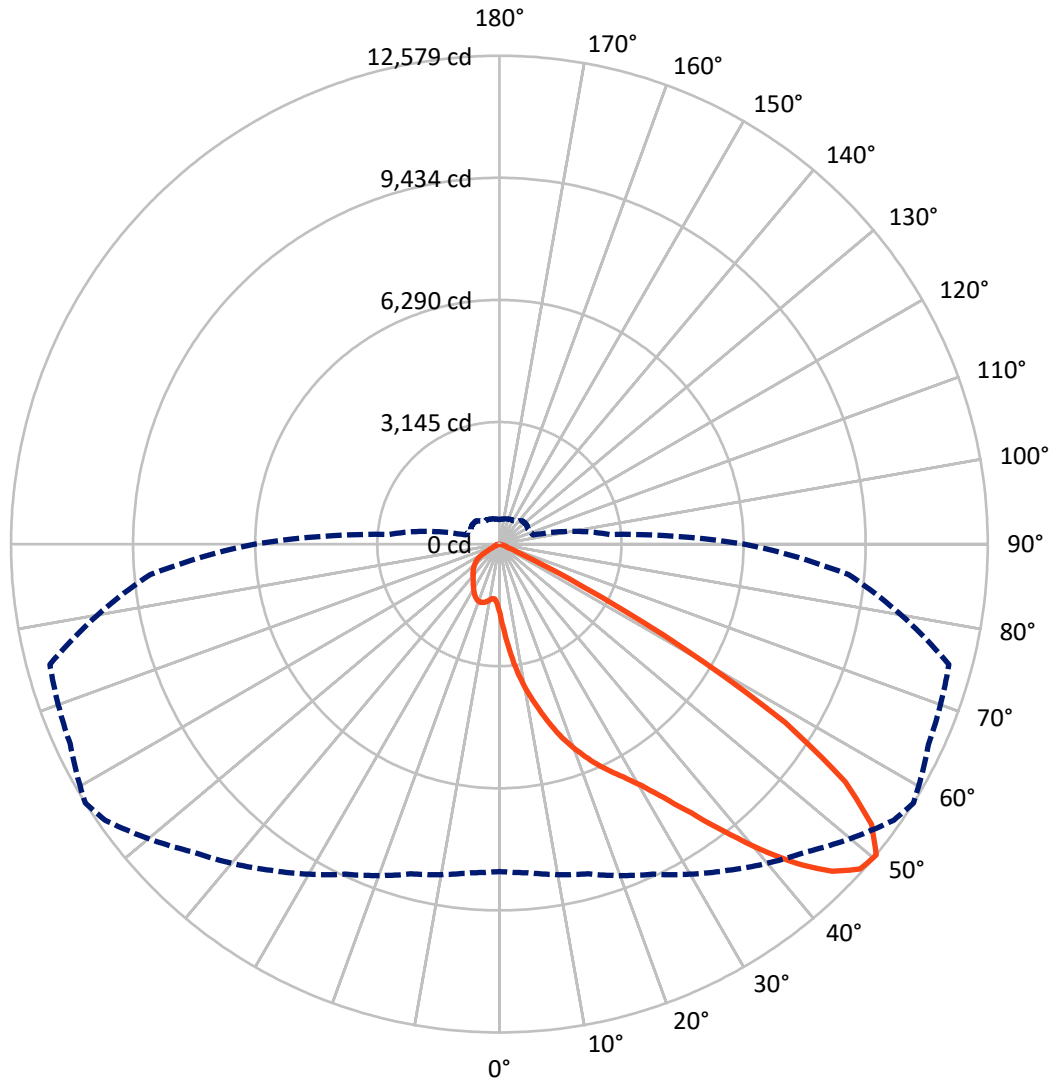
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.7 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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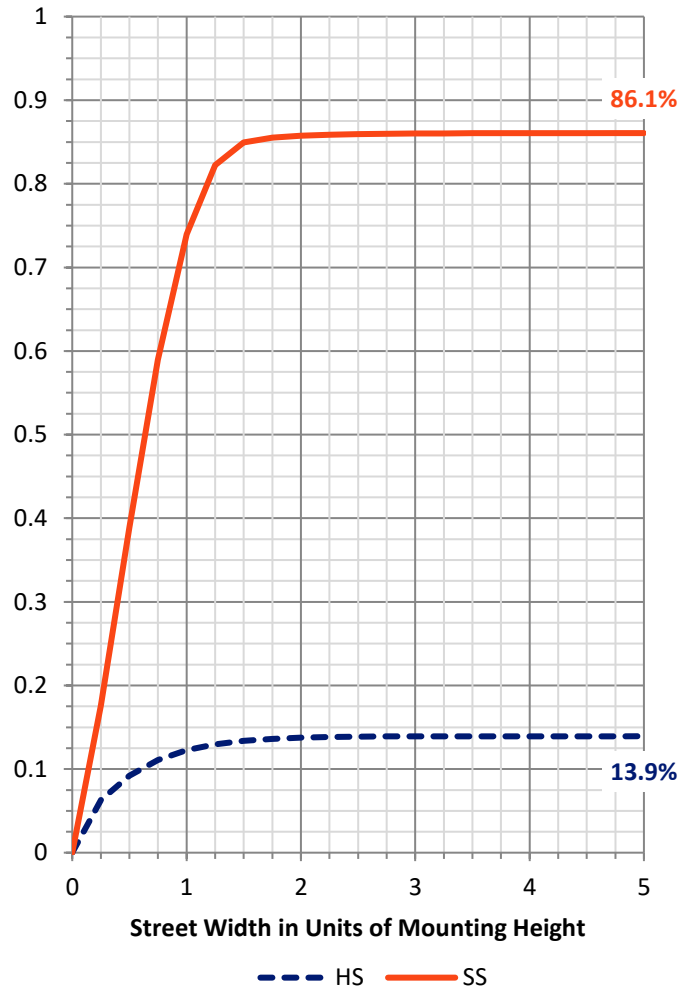
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2093.8	0.0	2093.8
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	12854.9	0.0	12854.9
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	14948.7	0.0	14948.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.2	1.5
10°-20°	875.7	5.9
20°-30°	1772.0	11.9
30°-40°	3134.9	21.0
40°-50°	4570.0	30.6
50°-60°	3663.0	24.5
60°-70°	659.9	4.4
70°-80°	52.0	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°	14948.7	100.0
0°-180°	14948.7	100.0

**Coefficient of Utilization**



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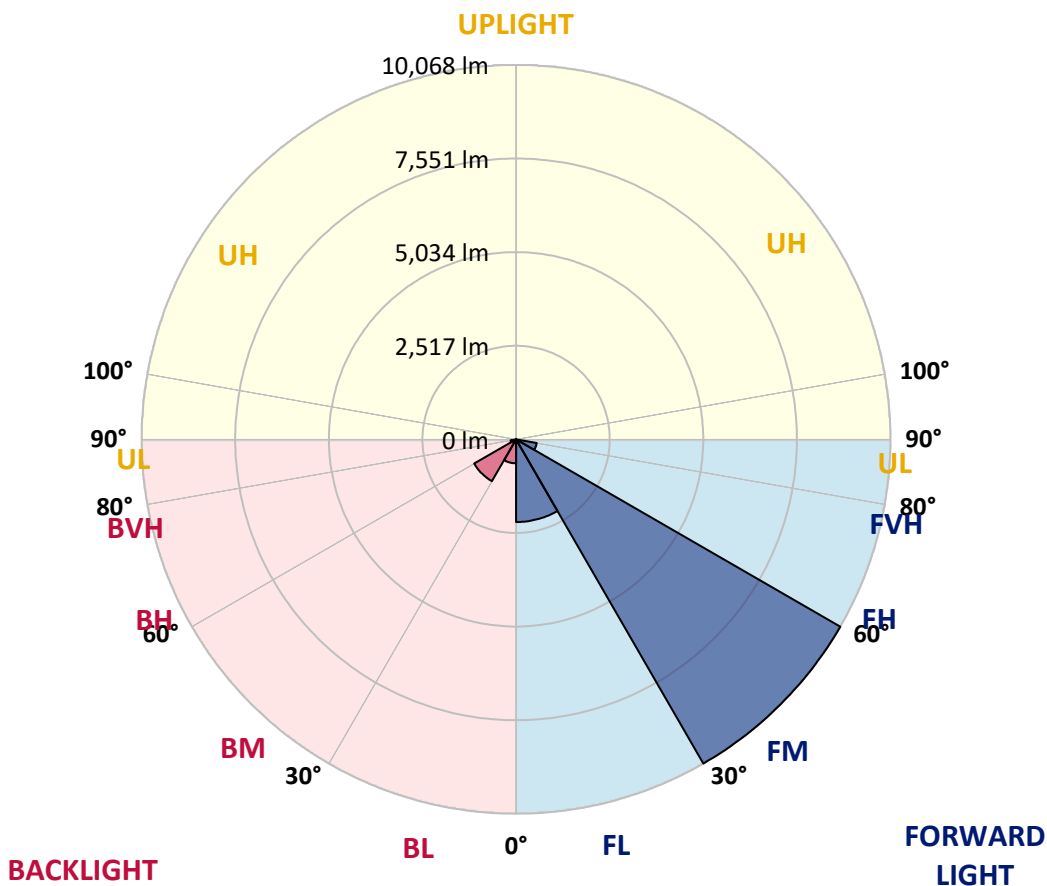
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2224.3	14.9			
FM (30°-60°)	10067.5	67.3			
FH (60°-80°)	563.1	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	644.6	4.3	B2/1000		
BM (30°-60°)	1300.3	8.7	B2/2500		
BH (60°-80°)	148.8	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°	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6
2.5°	2642.4	2600.9	2576.9	2557.7	2473.0	2338.7	2250.8	2204.4	2127.7	1998.2	1886.3
5°	3448.1	3417.7	3361.8	3323.4	3214.7	3024.5	2827.9	2749.5	2575.3	2282.8	2020.6
7.5°	3982.0	3959.6	3938.9	3887.7	3785.4	3612.8	3395.4	3313.8	3045.3	2629.6	2199.6
10°	4392.9	4375.3	4351.3	4349.7	4269.8	4114.7	3902.1	3817.4	3526.4	3006.9	2410.6
12.5°	4754.1	4739.7	4734.9	4779.7	4728.6	4613.5	4383.3	4277.8	3969.2	3392.2	2644.0
15°	5001.9	4998.7	5019.5	5107.4	5136.2	5083.4	4890.0	4776.5	4421.6	3779.0	2901.4
17.5°	5115.4	5125.0	5165.0	5316.8	5444.7	5489.5	5340.8	5244.9	4870.8	4170.7	3176.3
20°	5308.8	5305.6	5329.6	5473.5	5630.1	5790.0	5745.2	5663.7	5324.8	4584.7	3481.7
22.5°	5853.9	5807.6	5756.4	5778.8	5834.8	6021.8	6104.9	6063.4	5793.2	5009.9	3796.6
25°	6691.6	6643.6	6479.0	6319.1	6213.6	6298.3	6411.8	6432.6	6258.4	5446.3	4125.9
27.5°	7580.4	7537.2	7351.8	7112.0	6809.9	6662.8	6747.5	6789.1	6715.6	5965.8	4476.0
30°	8413.2	8355.7	8152.7	7855.3	7505.3	7279.9	7183.9	7212.7	7255.9	6581.3	4886.8
32.5°	9135.8	9092.6	8849.7	8536.3	8199.0	7964.0	7740.2	7788.2	7893.7	7334.2	5412.7
35°	9748.0	9725.7	9468.3	9156.6	8800.1	8680.2	8488.4	8498.0	8603.5	8243.8	6053.8
37.5°	10280.4	10242.0	10008.6	9719.3	9436.3	9417.1	9364.4	9369.2	9423.5	9303.6	6790.7
40°	10616.1	10580.9	10414.6	10235.6	10034.2	10037.4	10310.7	10331.5	10269.2	10344.3	7569.2
42.5°	10742.4	10716.8	10627.3	10628.9	10608.1	10702.4	11215.5	11253.9	11030.1	11161.2	8234.2
45°	10523.4	10512.2	10518.6	10748.7	10998.1	11289.1	11955.7	12022.8	11706.3	11703.1	8753.7
47.5°	9816.8	9794.4	9981.4	10373.1	10950.2	11516.1	12403.3	12507.2	12179.5	12013.2	9079.8
50°	8432.4	8496.4	8792.1	9380.4	10258.0	11204.3	12398.5	12579.1	12197.0	11986.0	9025.5
52.5°	6108.1	6095.3	6742.7	7551.6	8619.5	10206.8	11739.9	12003.6	11770.2	11719.1	8904.0
55°	3323.4	3440.1	3876.5	4947.6	6280.8	8318.9	10235.6	10811.1	11081.2	11621.6	9123.0
57.5°	1221.3	1272.5	1545.8	2303.5	3325.0	5173.0	7818.6	8686.6	9521.1	11349.8	9086.2
60°	492.4	501.9	610.7	847.2	1397.1	2632.8	4690.2	5460.7	6247.2	8688.2	6972.9
62.5°	358.1	370.9	414.0	495.6	706.6	1151.0	2022.2	2351.5	2570.5	4303.3	3435.3
65°	289.3	298.9	334.1	370.9	466.8	618.6	652.2	628.2	625.0	1112.6	788.1
67.5°	239.8	249.4	275.0	300.5	335.7	308.5	223.8	235.0	191.8	190.2	155.1
70°	175.8	187.0	212.6	239.8	201.4	83.1	129.5	191.8	145.5	121.5	118.3
72.5°	132.7	140.7	164.7	156.7	59.1	32.0	86.3	139.1	111.9	89.5	87.9
75°	99.1	103.9	83.1	25.6	6.4	8.0	32.0	57.5	62.3	51.2	51.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	4.8	6.4	8.0	9.6
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°	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6	1785.6
2.5°	1822.4	1755.2	1659.3	1579.4	1518.6	1459.5	1414.7	1370.0	1368.4	1346.0	1341.2
5°	1899.1	1777.6	1601.8	1475.5	1398.7	1352.4	1320.4	1304.4	1296.4	1288.4	1285.2
7.5°	2009.4	1835.2	1592.2	1457.9	1393.9	1363.6	1341.2	1331.6	1326.8	1320.4	1318.8
10°	2145.3	1918.3	1627.3	1491.5	1435.5	1406.7	1382.8	1368.4	1360.4	1349.2	1346.0
12.5°	2308.3	2020.6	1683.3	1547.4	1488.3	1449.9	1417.9	1397.1	1386.0	1371.6	1368.4
15°	2484.2	2130.9	1745.6	1598.6	1528.2	1478.7	1438.7	1406.7	1386.0	1368.4	1363.6
17.5°	2666.4	2242.8	1801.6	1633.7	1547.4	1488.3	1430.7	1387.6	1362.0	1339.6	1333.2
20°	2871.0	2357.9	1838.3	1640.1	1541.0	1462.7	1395.5	1341.2	1315.6	1285.2	1278.9
22.5°	3085.2	2465.0	1854.3	1625.7	1505.8	1414.7	1342.8	1286.8	1250.1	1218.1	1208.5
25°	3293.0	2560.9	1846.3	1585.8	1453.1	1347.6	1274.1	1216.5	1176.5	1144.6	1136.6
27.5°	3513.6	2640.8	1817.6	1526.6	1381.2	1274.1	1203.7	1154.2	1117.4	1082.2	1074.2
30°	3761.4	2714.4	1771.2	1454.7	1296.4	1198.9	1144.6	1111.0	1071.0	1034.3	1023.1
32.5°	4060.4	2779.9	1704.1	1368.4	1221.3	1133.4	1103.0	1077.4	1031.1	992.7	984.7
35°	4402.4	2834.3	1619.3	1278.9	1147.8	1091.8	1085.4	1051.9	991.1	946.4	936.8
37.5°	4798.9	2887.0	1518.6	1190.9	1093.4	1072.6	1074.2	1016.7	943.2	888.8	882.4
40°	5225.7	2939.8	1406.7	1114.2	1043.9	1061.4	1047.1	965.5	845.6	792.9	786.5
42.5°	5670.1	2997.3	1293.2	1042.3	1002.3	1018.3	997.5	863.2	776.9	749.7	746.5
45°	6071.3	3066.0	1170.1	970.3	960.7	955.9	920.8	781.7	744.9	725.7	724.1
47.5°	6360.7	3054.9	1039.1	901.6	916.0	900.0	792.9	743.3	713.0	687.4	681.0
50°	6307.9	2859.8	903.2	824.9	858.4	844.0	713.0	698.6	671.4	644.2	634.6
52.5°	6173.7	2594.5	784.9	743.3	796.1	762.5	658.6	644.2	620.2	585.1	573.9
55°	6245.6	2345.1	692.2	677.8	732.1	631.4	597.9	575.5	549.9	511.5	506.7
57.5°	6013.8	1913.5	556.3	565.9	647.4	538.7	524.3	489.2	446.0	420.4	417.2
60°	4162.7	1027.9	348.5	359.7	468.4	452.4	470.0	438.0	385.3	361.3	356.5
62.5°	1911.9	412.4	190.2	182.2	246.2	306.9	402.8	399.6	334.1	295.7	292.5
65°	463.6	188.6	135.9	127.9	139.1	183.8	262.2	314.9	270.2	225.4	220.6
67.5°	150.3	153.5	124.7	116.7	123.1	137.5	156.7	174.2	172.6	158.3	155.1
70°	119.9	139.1	115.1	105.5	105.5	110.3	105.5	84.7	73.5	79.9	83.1
72.5°	89.5	105.5	91.1	81.5	78.3	76.7	65.5	48.0	33.6	30.4	28.8
75°	52.8	59.1	55.9	48.0	44.8	40.0	32.0	20.8	11.2	8.0	4.8
77.5°	9.6	11.2	12.8	9.6	8.0	6.4	4.8	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)