

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: P640142

Luminaire Tested: GWS-SA5D-730-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640142  
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-SA5D-730-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

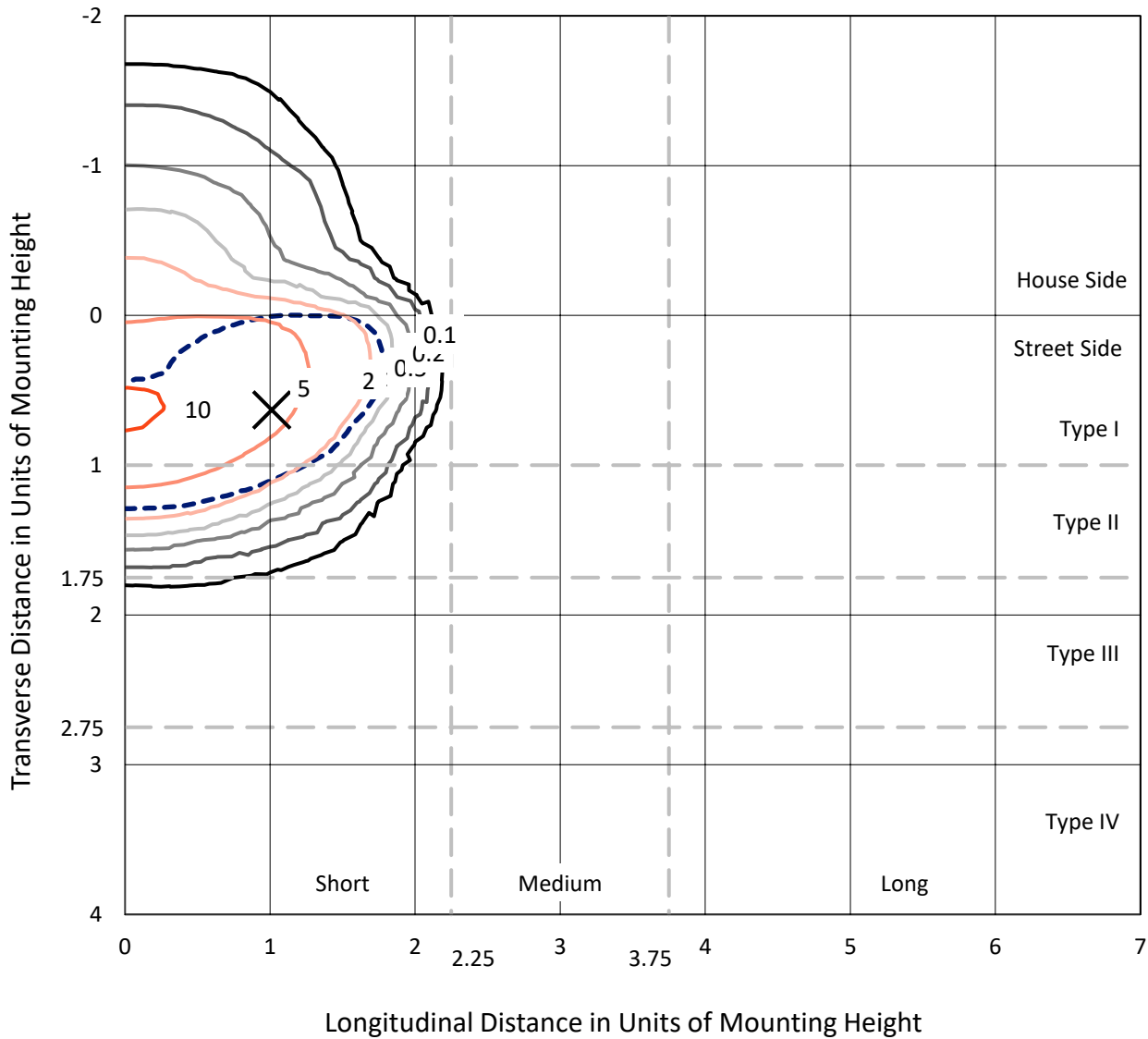
Lumens per Lamp: N/A  
Luminaire Lumens: 18337.8 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P640142  
 CATALOG NUMBER: GWS-SA5D-730-U-T2R-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

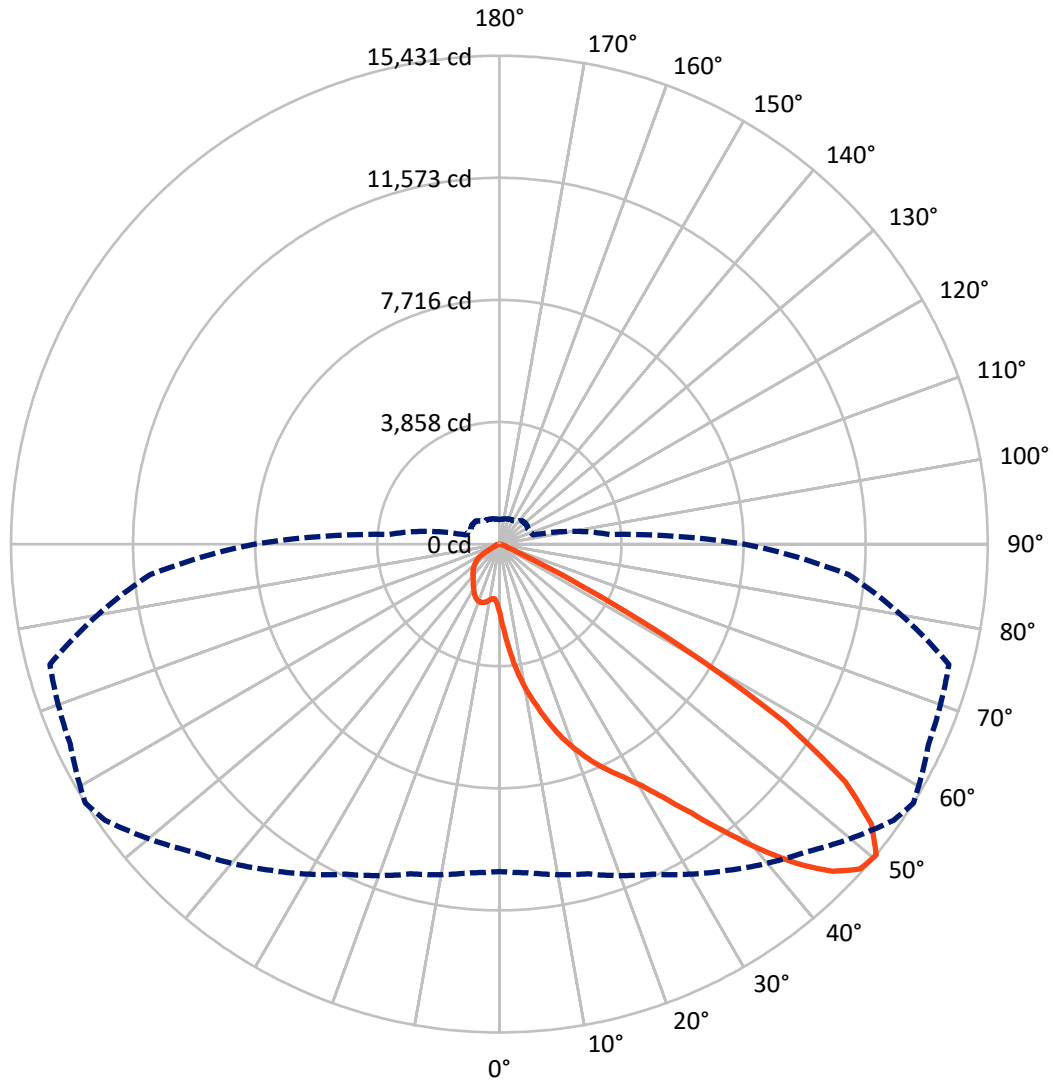
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P640142  
CATALOG NUMBER: GWS-SA5D-730-U-T2R-W-GRSBK

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P640142  
 CATALOG NUMBER: GWS-SA5D-730-U-T2R-W-GRSBK

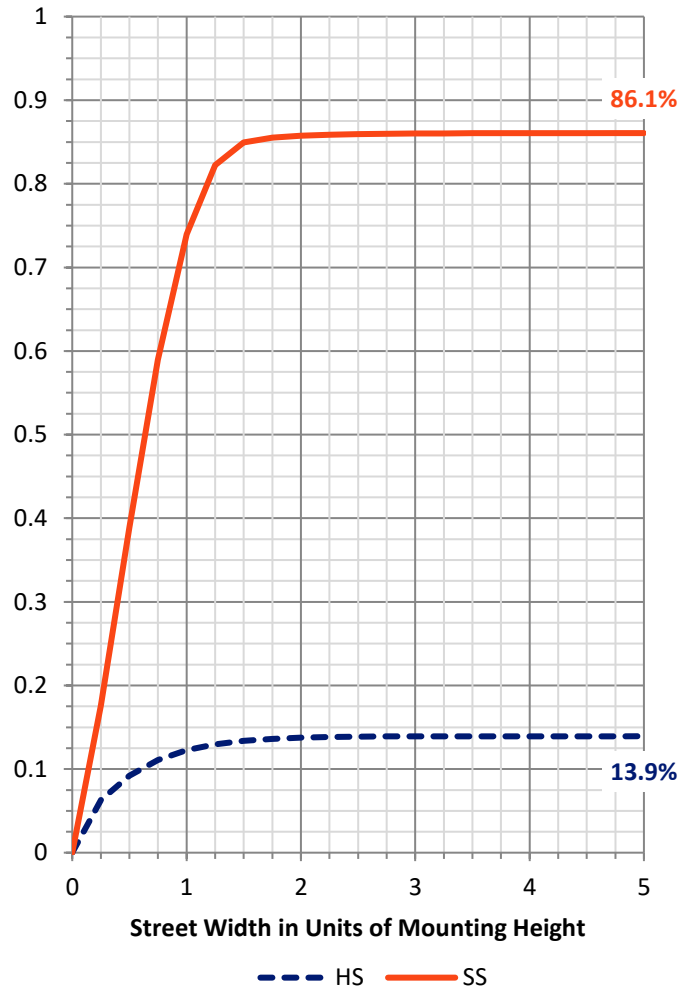
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2568.5	0.0	2568.5
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	15769.3	0.0	15769.3
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	18337.8	0.0	18337.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.4	1.5
10°-20°	1074.2	5.9
20°-30°	2173.7	11.9
30°-40°	3845.6	21.0
40°-50°	5606.1	30.6
50°-60°	4493.4	24.5
60°-70°	809.5	4.4
70°-80°	63.8	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°	18337.8	100.0
0°-180°	18337.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P640142

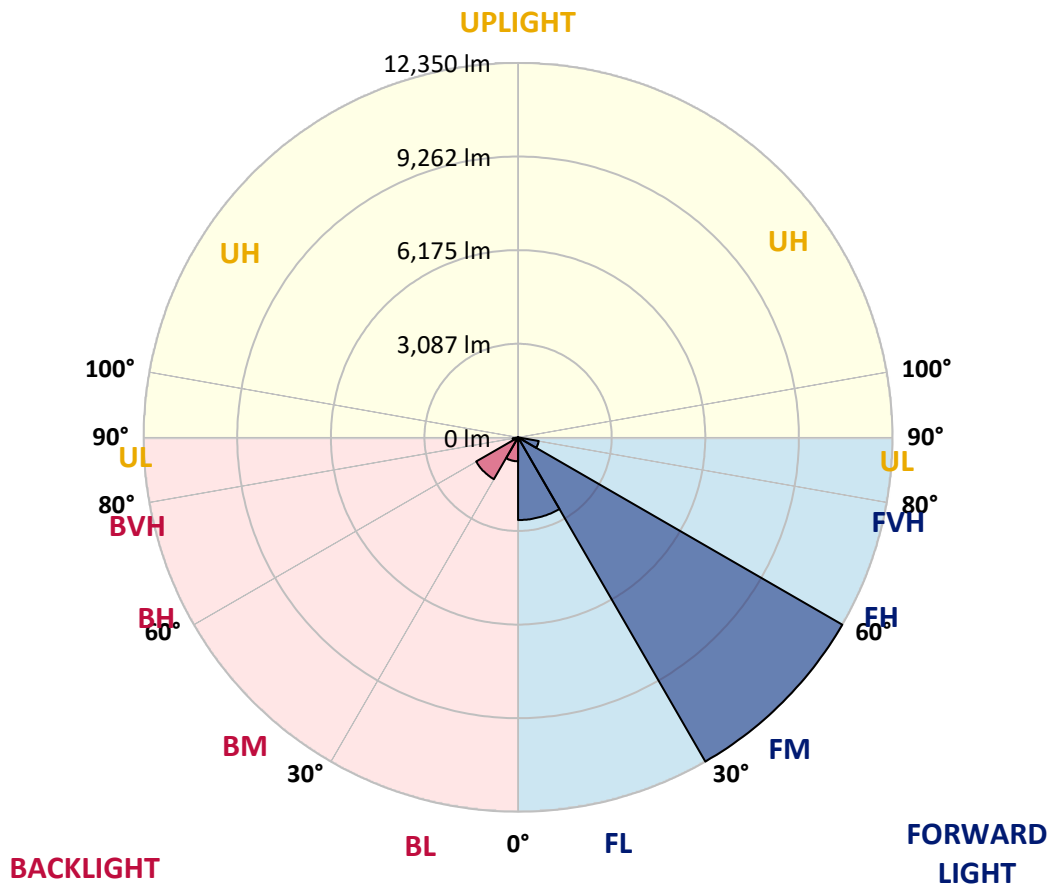
CATALOG NUMBER: GWS-SA5D-730-U-T2R-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2728.6	14.9			
FM (30°-60°)	12350.0	67.3			
FH (60°-80°)	690.8	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	790.7	4.3	B2/1000		
BM (30°-60°)	1595.1	8.7	B2/2500		
BH (60°-80°)	182.5	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





REPORT NUMBER: P640142

CATALOG NUMBER: GWS-SA5D-730-U-T2R-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2190.4	2190.4	2190.4	2190.4	2190.4	2190.4	2190.4	2190.4	2190.4	2190.4	2190.4
2.5°	3241.5	3190.5	3161.1	3137.6	3033.6	2868.9	2761.1	2704.2	2610.1	2451.2	2314.0
5°	4229.8	4192.6	4123.9	4076.9	3943.5	3710.2	3469.0	3372.9	3159.1	2800.3	2478.7
7.5°	4884.8	4857.4	4831.9	4769.1	4643.6	4431.8	4165.1	4065.1	3735.7	3225.8	2698.3
10°	5388.8	5367.2	5337.8	5335.8	5237.8	5047.6	4786.8	4682.8	4325.9	3688.6	2957.2
12.5°	5832.0	5814.3	5808.4	5863.3	5800.6	5659.4	5377.0	5247.6	4869.1	4161.2	3243.5
15°	6135.9	6132.0	6157.5	6265.3	6300.6	6235.9	5998.6	5859.4	5424.1	4635.8	3559.2
17.5°	6275.1	6286.9	6335.9	6522.2	6679.1	6734.0	6551.6	6434.0	5975.1	5116.2	3896.5
20°	6512.4	6508.5	6537.9	6714.4	6906.6	7102.7	7047.8	6947.8	6532.0	5624.1	4271.0
22.5°	7181.1	7124.3	7061.5	7089.0	7157.6	7387.0	7489.0	7438.0	7106.6	6145.7	4657.3
25°	8208.7	8149.8	7947.9	7751.8	7622.3	7726.3	7865.5	7891.0	7677.3	6681.1	5061.3
27.5°	9299.0	9246.0	9018.6	8724.4	8353.8	8173.4	8277.3	8328.3	8238.1	7318.4	5490.8
30°	10320.7	10250.1	10001.0	9636.3	9206.8	8930.3	8812.7	8848.0	8900.9	8073.4	5994.7
32.5°	11207.0	11154.1	10856.0	10471.7	10057.9	9769.6	9495.1	9553.9	9683.3	8997.0	6639.9
35°	11958.1	11930.6	11614.9	11232.5	10795.2	10648.1	10412.8	10424.6	10554.0	10112.8	7426.2
37.5°	12611.1	12564.0	12277.7	11922.8	11575.7	11552.2	11487.4	11493.3	11560.0	11412.9	8330.3
40°	13022.9	12979.8	12775.8	12556.2	12309.1	12313.0	12648.3	12673.8	12597.4	12689.5	9285.3
42.5°	13177.8	13146.4	13036.6	13038.6	13013.1	13128.8	13758.3	13805.3	13530.8	13691.6	10101.0
45°	12909.2	12895.4	12903.3	13185.7	13491.6	13848.5	14666.2	14748.6	14360.3	14356.4	10738.3
47.5°	12042.4	12014.9	12244.4	12724.8	13432.7	14126.9	15215.3	15342.7	14940.7	14736.8	11138.4
50°	10344.2	10422.6	10785.4	11507.1	12583.6	13744.5	15209.4	15431.0	14962.3	14703.5	11071.7
52.5°	7492.9	7477.2	8271.4	9263.7	10573.6	12520.9	14401.5	14725.0	14438.7	14376.0	10922.7
55°	4076.9	4220.0	4755.4	6069.2	7704.7	10205.0	12556.2	13262.1	13593.5	14256.4	11191.3
57.5°	1498.2	1560.9	1896.3	2825.8	4078.8	6345.7	9591.2	10656.0	11679.6	13923.0	11146.2
60°	604.0	615.7	749.1	1039.3	1713.9	3229.7	5753.5	6698.7	7663.5	10657.9	8553.8
62.5°	439.3	454.9	507.9	607.9	866.8	1411.9	2480.6	2884.6	3153.3	5279.0	4214.2
65°	354.9	366.7	409.8	454.9	572.6	758.9	800.1	770.7	766.7	1364.8	966.8
67.5°	294.1	305.9	337.3	368.7	411.8	378.5	274.5	288.3	235.3	233.4	190.2
70°	215.7	229.4	260.8	294.1	247.1	102.0	158.8	235.3	178.4	149.0	145.1
72.5°	162.8	172.6	202.0	192.2	72.6	39.2	105.9	170.6	137.3	109.8	107.9
75°	121.6	127.5	102.0	31.4	7.8	9.8	39.2	70.6	76.5	62.8	62.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	5.9	7.8	9.8	11.8
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



REPORT NUMBER: P640142

CATALOG NUMBER: GWS-SA5D-730-U-T2R-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2190.4	2190.4	2190.4	2190.4	2190.4	2190.4	2190.4	2190.4	2190.4	2190.4	2190.4
2.5°	2235.5	2153.2	2035.5	1937.5	1862.9	1790.4	1735.5	1680.6	1678.6	1651.1	1645.3
5°	2329.6	2180.6	1964.9	1810.0	1715.9	1659.0	1619.8	1600.2	1590.4	1580.6	1576.6
7.5°	2465.0	2251.2	1953.1	1788.4	1710.0	1672.7	1645.3	1633.5	1627.6	1619.8	1617.8
10°	2631.6	2353.2	1996.3	1829.6	1761.0	1725.7	1696.3	1678.6	1668.8	1655.1	1651.1
12.5°	2831.7	2478.7	2064.9	1898.2	1825.7	1778.6	1739.4	1713.9	1700.2	1682.5	1678.6
15°	3047.4	2614.0	2141.4	1961.0	1874.7	1813.9	1764.9	1725.7	1700.2	1678.6	1672.7
17.5°	3270.9	2751.3	2210.0	2004.1	1898.2	1825.7	1755.1	1702.1	1670.8	1643.3	1635.5
20°	3521.9	2892.5	2255.1	2012.0	1890.4	1794.3	1711.9	1645.3	1613.9	1576.6	1568.8
22.5°	3784.7	3023.8	2274.7	1994.3	1847.2	1735.5	1647.2	1578.6	1533.5	1494.3	1482.5
25°	4039.6	3141.5	2264.9	1945.3	1782.5	1653.1	1562.9	1492.3	1443.3	1404.1	1394.3
27.5°	4310.2	3239.5	2229.6	1872.7	1694.3	1562.9	1476.6	1415.8	1370.7	1327.6	1317.8
30°	4614.2	3329.8	2172.8	1784.5	1590.4	1470.7	1404.1	1362.9	1313.9	1268.8	1255.0
32.5°	4980.9	3410.2	2090.4	1678.6	1498.2	1390.3	1353.1	1321.7	1264.8	1217.8	1208.0
35°	5400.5	3476.8	1986.5	1568.8	1408.0	1339.4	1331.5	1290.3	1215.8	1160.9	1149.1
37.5°	5886.9	3541.5	1862.9	1460.9	1341.3	1315.8	1317.8	1247.2	1157.0	1090.3	1082.5
40°	6410.5	3606.2	1725.7	1366.8	1280.5	1302.1	1284.4	1184.4	1037.4	972.6	964.8
42.5°	6955.6	3676.8	1586.4	1278.6	1229.5	1249.1	1223.7	1058.9	953.0	919.7	915.8
45°	7447.8	3761.2	1435.4	1190.3	1178.6	1172.7	1129.5	958.9	913.8	890.3	888.3
47.5°	7802.8	3747.4	1274.6	1106.0	1123.6	1104.0	972.6	911.9	874.6	843.2	835.4
50°	7738.0	3508.2	1108.0	1011.9	1053.0	1035.4	874.6	856.9	823.6	790.3	778.5
52.5°	7573.3	3182.7	962.8	911.9	976.6	935.4	807.9	790.3	760.9	717.7	704.0
55°	7661.6	2876.8	849.1	831.5	898.1	774.6	733.4	706.0	674.6	627.5	621.6
57.5°	7377.2	2347.3	682.4	694.2	794.2	660.9	643.2	600.1	547.1	515.7	511.8
60°	5106.4	1260.9	427.5	441.2	574.6	555.0	576.5	537.3	472.6	443.2	437.3
62.5°	2345.3	505.9	233.4	223.6	302.0	376.5	494.2	490.2	409.8	362.8	358.9
65°	568.7	231.4	166.7	156.9	170.6	225.5	321.6	386.3	331.4	276.5	270.6
67.5°	184.3	188.3	153.0	143.2	151.0	168.6	192.2	213.7	211.8	194.1	190.2
70°	147.1	170.6	141.2	129.4	129.4	135.3	129.4	103.9	90.2	98.0	102.0
72.5°	109.8	129.4	111.8	100.0	96.1	94.1	80.4	58.8	41.2	37.3	35.3
75°	64.7	72.6	68.6	58.8	54.9	49.0	39.2	25.5	13.7	9.8	5.9
77.5°	11.8	13.7	15.7	11.8	9.8	7.8	5.9	2.0	0.0	0.0	0.0
80°	0.0	2.0	2.0	2.0	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

(END OF REPORT)