

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: P640252

Luminaire Tested: GWS-SA5D-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640252  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

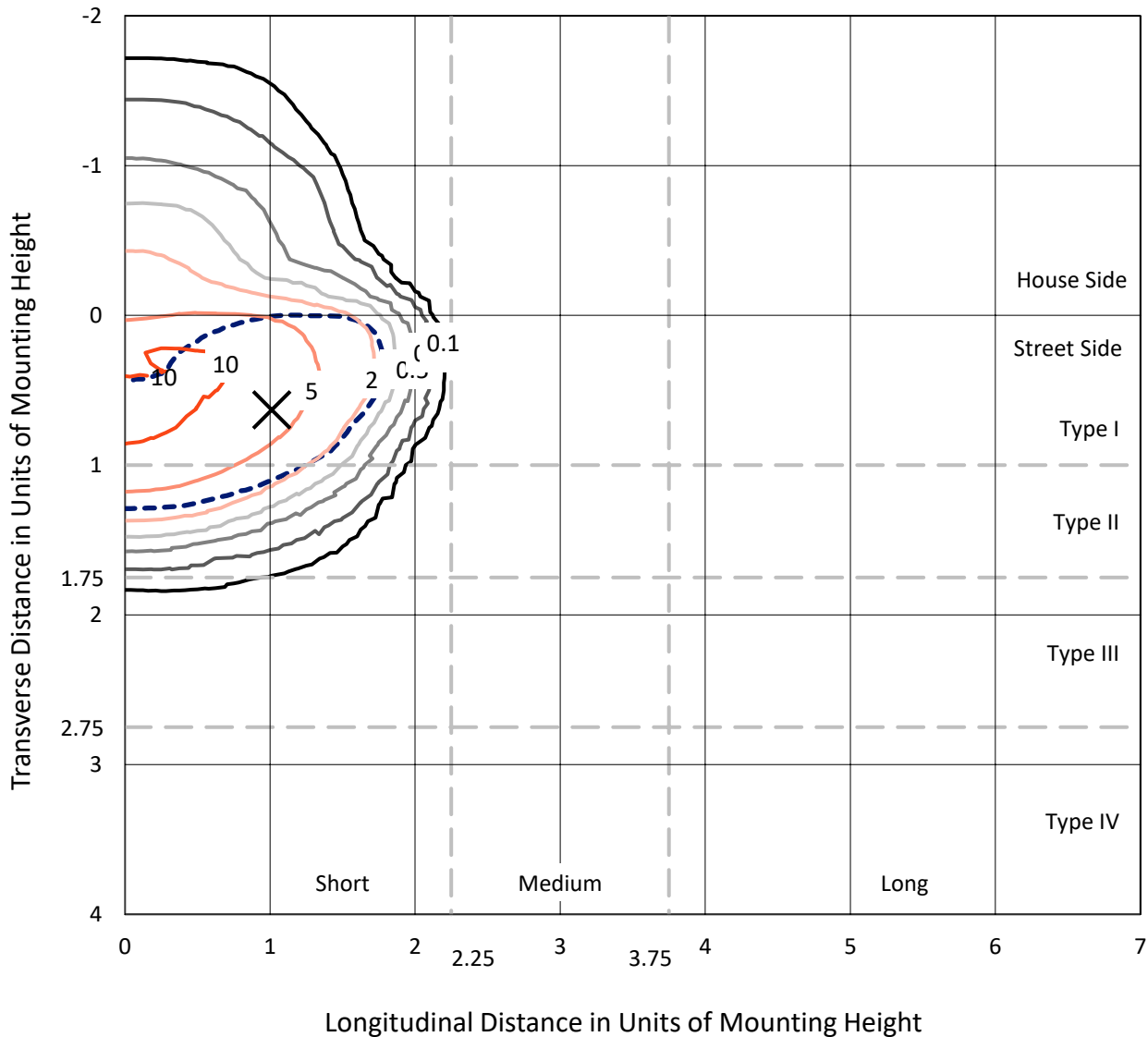
Lumens per Lamp: N/A  
Luminaire Lumens: 20137.8 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

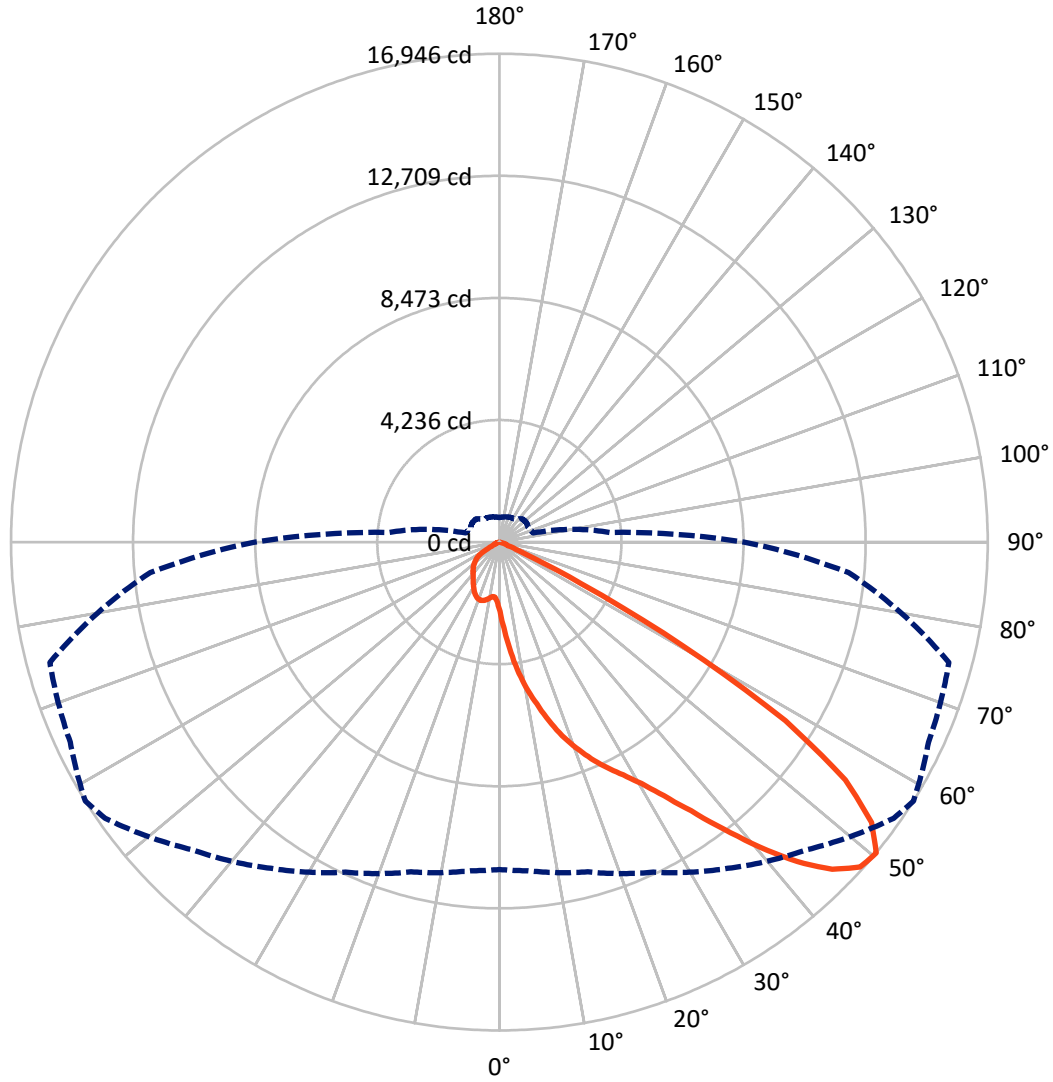
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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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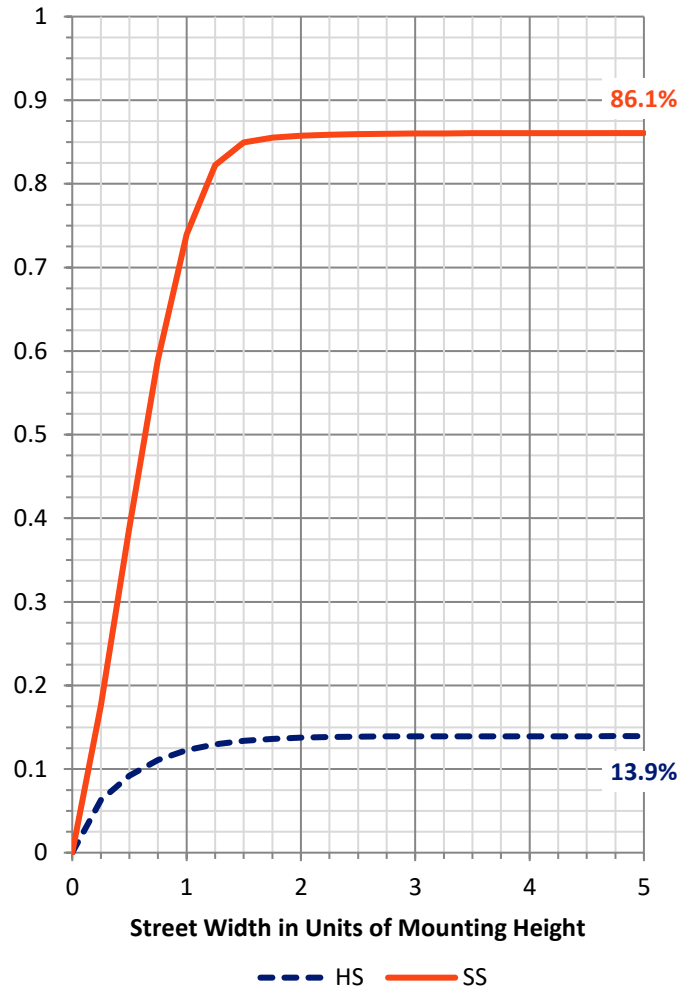
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2820.6	0.0	2820.6
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	17317.2	0.0	17317.2
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	20137.8	0.0	20137.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.0	1.5
10°-20°	1179.7	5.9
20°-30°	2387.1	11.9
30°-40°	4223.1	21.0
40°-50°	6156.4	30.6
50°-60°	4934.5	24.5
60°-70°	889.0	4.4
70°-80°	70.1	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°	20137.8	100.0
0°-180°	20137.8	100.0

**Coefficient of Utilization**



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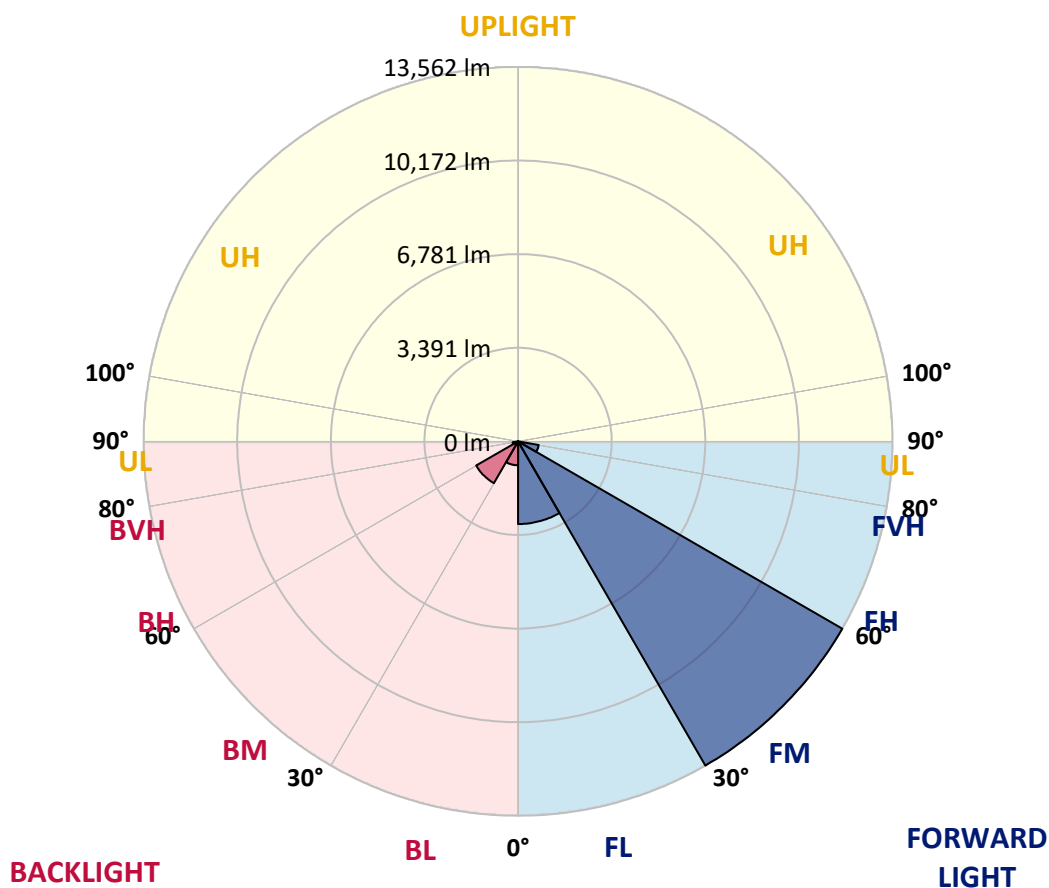
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2996.4	14.9			
FM (30°-60°)	13562.2	67.3			
FH (60°-80°)	758.6	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	868.4	4.3	B2/1000		
BM (30°-60°)	1751.7	8.7	B2/2500		
BH (60°-80°)	200.5	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2405.4	2405.4	2405.4	2405.4	2405.4	2405.4	2405.4	2405.4	2405.4	2405.4	2405.4
2.5°	3559.7	3503.7	3471.4	3445.6	3331.4	3150.5	3032.1	2969.6	2866.3	2691.8	2541.1
5°	4645.0	4604.1	4528.7	4477.1	4330.6	4074.4	3809.5	3704.0	3469.2	3075.2	2722.0
7.5°	5364.3	5334.1	5306.1	5237.2	5099.4	4866.8	4574.0	4464.1	4102.4	3542.5	2963.2
10°	5917.7	5894.0	5861.7	5859.6	5751.9	5543.0	5256.6	5142.5	4750.6	4050.7	3247.4
12.5°	6404.4	6385.0	6378.6	6438.9	6370.0	6214.9	5904.8	5762.7	5347.1	4569.7	3561.8
15°	6738.2	6733.9	6761.9	6880.3	6919.1	6848.0	6587.5	6434.6	5956.5	5090.8	3908.5
17.5°	6891.1	6904.0	6957.9	7162.4	7334.7	7395.0	7194.7	7065.5	6561.6	5618.4	4278.9
20°	7151.7	7147.4	7179.7	7373.5	7584.5	7799.9	7739.6	7629.7	7173.2	6176.2	4690.3
22.5°	7886.0	7823.6	7754.6	7784.8	7860.2	8112.1	8224.1	8168.1	7804.2	6749.0	5114.5
25°	9014.4	8949.8	8728.0	8512.7	8370.5	8484.7	8637.6	8665.6	8430.8	7336.9	5558.1
27.5°	10211.8	10153.6	9903.8	9580.8	9173.8	8975.7	9089.8	9145.8	9046.7	8036.7	6029.7
30°	11333.7	11256.2	10982.7	10582.2	10110.5	9806.9	9677.7	9716.5	9774.6	8865.8	6583.2
32.5°	12307.1	12248.9	11921.6	11499.5	11045.1	10728.6	10427.1	10491.7	10633.8	9880.1	7291.6
35°	13131.9	13101.7	12755.0	12335.1	11854.9	11693.3	11434.9	11447.8	11590.0	11105.4	8155.2
37.5°	13849.0	13797.3	13482.9	13093.1	12711.9	12686.1	12615.0	12621.5	12694.7	12533.2	9147.9
40°	14301.2	14253.8	14029.9	13788.7	13517.3	13521.6	13889.9	13917.9	13833.9	13935.1	10196.7
42.5°	14471.3	14436.9	14316.3	14318.4	14290.4	14417.5	15108.7	15160.4	14858.9	15035.5	11092.5
45°	14176.3	14161.2	14169.8	14479.9	14815.9	15207.8	16105.8	16196.2	15769.9	15765.6	11792.4
47.5°	13224.5	13194.3	13446.3	13973.9	14751.3	15513.6	16708.8	16848.7	16407.3	16183.3	12231.7
50°	11359.6	11445.7	11844.1	12636.6	13818.8	15093.7	16702.3	16945.7	16431.0	16146.7	12158.5
52.5°	8228.4	8211.2	9083.3	10173.0	11611.5	13749.9	15815.1	16170.4	15856.0	15787.1	11994.8
55°	4477.1	4634.3	5222.2	6665.0	8461.0	11206.7	13788.7	14563.9	14927.9	15655.7	12289.9
57.5°	1645.3	1714.2	2082.4	3103.1	4479.2	6968.6	10532.6	11702.0	12826.1	15289.6	12240.3
60°	663.3	676.2	822.6	1141.3	1882.1	3546.8	6318.3	7356.3	8415.8	11704.1	9393.4
62.5°	482.4	499.6	557.7	667.6	951.8	1550.5	2724.1	3167.8	3462.8	5797.1	4627.8
65°	389.8	402.7	450.1	499.6	628.8	833.4	878.6	846.3	842.0	1498.8	1061.7
67.5°	323.0	335.9	370.4	404.9	452.2	415.6	301.5	316.6	258.4	256.3	208.9
70°	236.9	252.0	286.4	323.0	271.3	112.0	174.4	258.4	196.0	163.7	159.4
72.5°	178.7	189.5	221.8	211.0	79.7	43.1	116.3	187.4	150.7	120.6	118.4
75°	133.5	140.0	112.0	34.5	8.6	10.8	43.1	77.5	84.0	68.9	68.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	6.5	8.6	10.8	12.9
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°	2405.4	2405.4	2405.4	2405.4	2405.4	2405.4	2405.4	2405.4	2405.4	2405.4	2405.4
2.5°	2455.0	2364.5	2235.3	2127.6	2045.8	1966.1	1905.8	1845.5	1843.4	1813.2	1806.8
5°	2558.3	2394.7	2157.8	1987.7	1884.3	1821.8	1778.8	1757.2	1746.5	1735.7	1731.4
7.5°	2706.9	2472.2	2144.9	1964.0	1877.8	1836.9	1806.8	1793.8	1787.4	1778.8	1776.6
10°	2890.0	2584.2	2192.2	2009.2	1933.8	1895.1	1862.8	1843.4	1832.6	1817.5	1813.2
12.5°	3109.6	2722.0	2267.6	2084.6	2004.9	1953.2	1910.1	1882.1	1867.1	1847.7	1843.4
15°	3346.5	2870.6	2351.6	2153.5	2058.7	1992.0	1938.1	1895.1	1867.1	1843.4	1836.9
17.5°	3592.0	3021.3	2427.0	2200.8	2084.6	2004.9	1927.4	1869.2	1834.8	1804.6	1796.0
20°	3867.6	3176.4	2476.5	2209.5	2075.9	1970.4	1880.0	1806.8	1772.3	1731.4	1722.8
22.5°	4156.2	3320.7	2498.0	2190.1	2028.6	1905.8	1808.9	1733.5	1684.0	1640.9	1628.0
25°	4436.1	3449.9	2487.3	2136.2	1957.5	1815.4	1716.3	1638.8	1585.0	1541.9	1531.1
27.5°	4733.3	3557.5	2448.5	2056.6	1860.6	1716.3	1621.6	1554.8	1505.3	1457.9	1447.1
30°	5067.1	3656.6	2386.0	1959.7	1746.5	1615.1	1541.9	1496.7	1442.8	1393.3	1378.2
32.5°	5469.8	3744.9	2295.6	1843.4	1645.3	1526.8	1485.9	1451.4	1389.0	1337.3	1326.5
35°	5930.7	3818.1	2181.5	1722.8	1546.2	1470.8	1462.2	1417.0	1335.2	1274.9	1261.9
37.5°	6464.7	3889.2	2045.8	1604.3	1473.0	1445.0	1447.1	1369.6	1270.5	1197.3	1188.7
40°	7039.7	3960.2	1895.1	1501.0	1406.2	1429.9	1410.5	1300.7	1139.2	1068.1	1059.5
42.5°	7638.4	4037.8	1742.2	1404.1	1350.2	1371.8	1343.8	1162.9	1046.6	1010.0	1005.7
45°	8178.9	4130.4	1576.3	1307.2	1294.2	1287.8	1240.4	1053.0	1003.5	977.7	975.5
47.5°	8568.7	4115.3	1399.8	1214.6	1233.9	1212.4	1068.1	1001.4	960.4	926.0	917.4
50°	8497.6	3852.6	1216.7	1111.2	1156.4	1137.0	960.4	941.1	904.5	867.8	854.9
52.5°	8316.7	3495.1	1057.4	1001.4	1072.4	1027.2	887.2	867.8	835.5	788.2	773.1
55°	8413.6	3159.1	932.5	913.1	986.3	850.6	805.4	775.2	740.8	689.1	682.6
57.5°	8101.4	2577.7	749.4	762.3	872.2	725.7	706.3	659.0	600.8	566.4	562.1
60°	5607.6	1384.7	469.5	484.5	631.0	609.4	633.1	590.1	519.0	486.7	480.2
62.5°	2575.5	555.6	256.3	245.5	331.6	413.5	542.7	538.4	450.1	398.4	394.1
65°	624.5	254.1	183.0	172.3	187.4	247.6	353.2	424.2	363.9	303.6	297.2
67.5°	202.4	206.7	168.0	157.2	165.8	185.2	211.0	234.7	232.6	213.2	208.9
70°	161.5	187.4	155.0	142.1	142.1	148.6	142.1	114.1	99.1	107.7	112.0
72.5°	120.6	142.1	122.7	109.8	105.5	103.4	88.3	64.6	45.2	40.9	38.8
75°	71.1	79.7	75.4	64.6	60.3	53.8	43.1	28.0	15.1	10.8	6.5
77.5°	12.9	15.1	17.2	12.9	10.8	8.6	6.5	2.2	0.0	0.0	0.0
80°	0.0	2.2	2.2	2.2	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)