

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: P639815

Luminaire Tested: GWS-SA5C-750-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639815  
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-SA5C-750-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

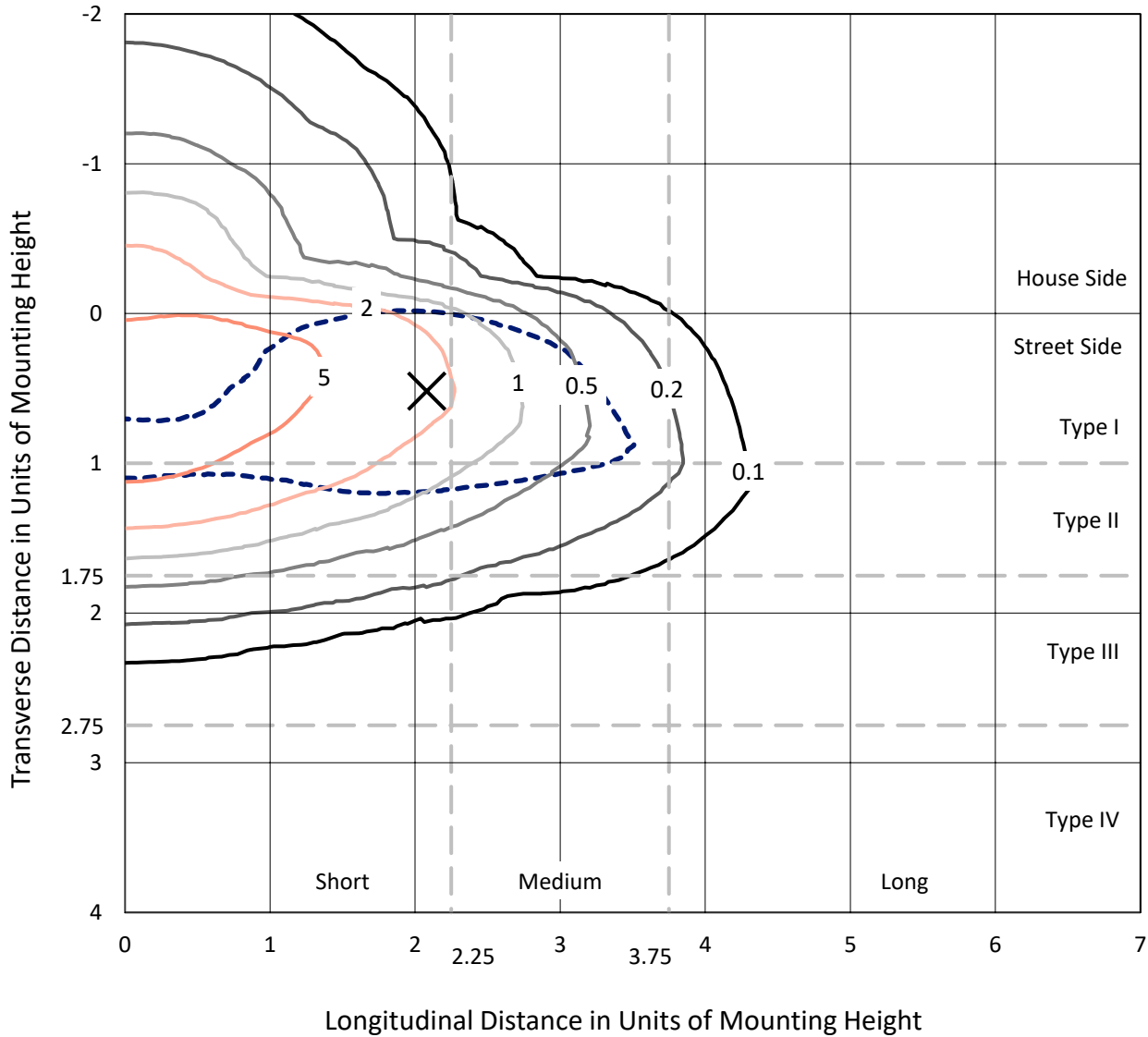
Lumens per Lamp: N/A  
Luminaire Lumens: 24837.5 lumens  
Efficiency: N/A  
Efficacy: 157.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

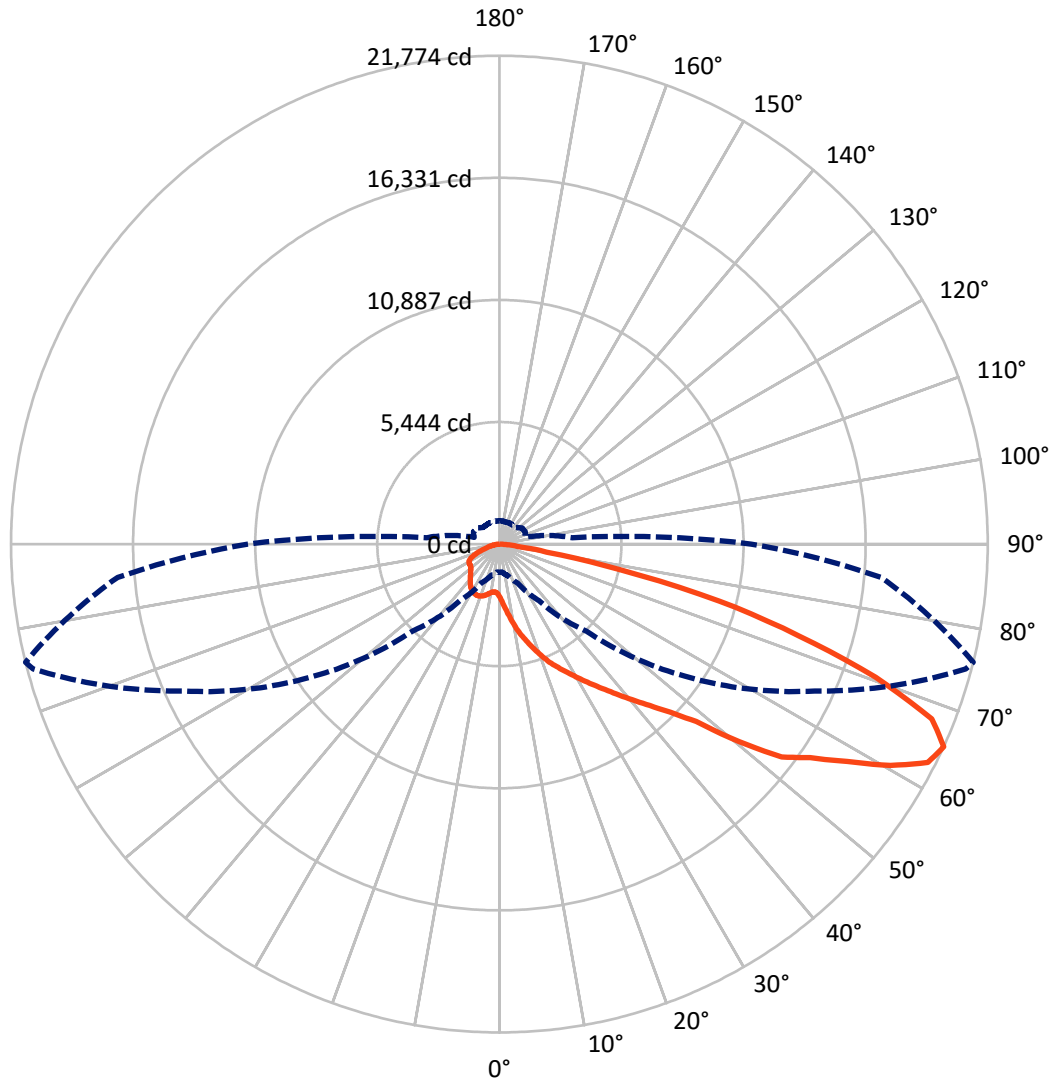
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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
<b>House Side</b>	Lumens	4151.6	0.0	4151.6
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	20685.9	0.0	20685.9
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	24837.5	0.0	24837.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.4	1.1
10°-20°	1064.3	4.3
20°-30°	2074.2	8.4
30°-40°	3469.0	14.0
40°-50°	4967.0	20.0
50°-60°	5880.2	23.7
60°-70°	4889.4	19.7
70°-80°	2000.9	8.1
80°-90°	213.0	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°	24837.5	100.0
0°-180°	24837.5	100.0

**Coefficient of Utilization**



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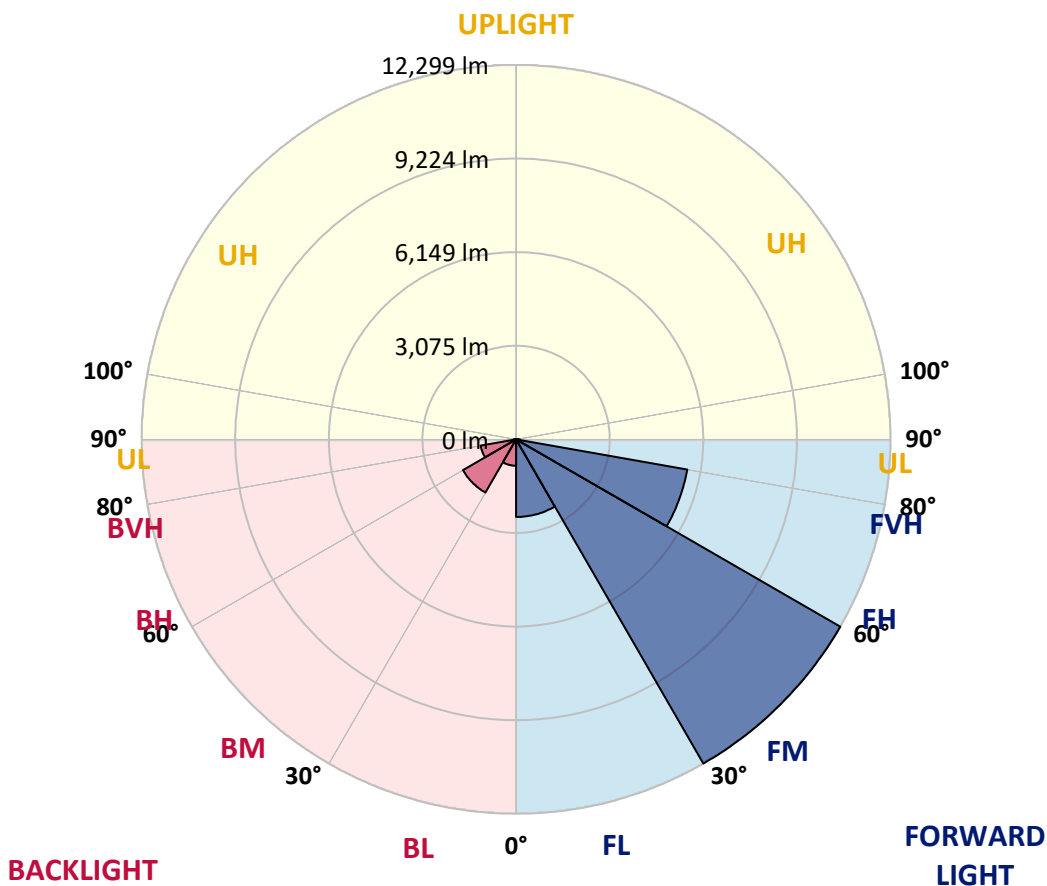
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2549.5	10.3			
FM (30°-60°)	12298.6	49.5			
FH (60°-80°)	5710.8	23.0			G3/7500
FVH (80°-90°)	127.0	0.5			G2/225
BL (0°-30°)	868.5	3.5	B2/1000		
BM (30°-60°)	2017.6	8.1	B2/2500		
BH (60°-80°)	1179.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	86.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2352.0	2352.0	2352.0	2352.0	2352.0	2352.0	2352.0	2352.0	2352.0	2352.0	2352.0
2.5°	3296.7	3308.9	3268.7	3254.8	3160.5	3033.0	2926.5	2765.8	2617.4	2594.7	2462.0
5°	4187.2	4134.8	4089.4	4059.7	3928.8	3783.8	3558.6	3256.5	2940.5	2902.0	2615.7
7.5°	4716.3	4707.5	4651.7	4634.2	4532.9	4388.0	4155.8	3780.3	3321.1	3258.3	2823.5
10°	5140.6	5135.3	5107.4	5123.1	5030.6	4889.1	4663.9	4276.2	3738.4	3675.6	3055.7
12.5°	5510.7	5519.5	5514.2	5571.9	5524.7	5414.7	5180.7	4754.7	4155.8	4087.7	3338.6
15°	5781.4	5788.4	5814.6	5940.3	5966.5	5943.8	5706.3	5224.4	4567.8	4470.1	3630.2
17.5°	5858.2	5872.2	5935.1	6137.6	6279.0	6373.3	6197.0	5702.8	4972.9	4866.4	3927.0
20°	5961.2	5977.0	6039.8	6251.1	6458.9	6673.7	6642.2	6188.2	5381.5	5294.2	4227.3
22.5°	6437.9	6425.7	6397.8	6499.0	6647.5	6914.6	6993.2	6654.5	5804.1	5720.3	4559.1
25°	7356.4	7333.7	7155.6	7063.0	7014.2	7176.5	7316.2	7078.8	6216.2	6090.5	4868.2
27.5°	8369.1	8356.9	8129.9	7909.9	7609.6	7539.7	7621.8	7448.9	6616.0	6488.6	5137.1
30°	9327.8	9291.1	9053.6	8777.7	8376.1	8075.8	7955.3	7812.1	7054.3	6921.6	5451.4
32.5°	10185.1	10138.0	9858.6	9553.0	9132.2	8777.7	8418.0	8198.0	7550.2	7396.6	5772.7
35°	10888.8	10841.6	10555.3	10230.5	9767.8	9505.9	9013.5	8617.1	8054.8	7899.4	6151.6
37.5°	11433.6	11389.9	11091.3	10771.8	10368.4	10160.7	9732.9	9088.5	8636.3	8473.9	6553.2
40°	11739.1	11707.7	11468.5	11215.3	10876.6	10696.7	10504.6	9684.0	9287.6	9125.2	7026.4
42.5°	11831.7	11810.7	11643.1	11512.1	11283.4	11147.2	11257.2	10384.2	9982.6	9841.1	7558.9
45°	11599.5	11599.5	11550.6	11616.9	11627.4	11625.6	12011.5	11175.1	10836.4	10681.0	8309.8
47.5°	11005.8	11044.2	11115.8	11442.3	11786.3	12074.4	12893.3	12229.8	11934.7	11807.2	9373.2
50°	9919.7	10024.5	10268.9	10906.2	11637.9	12371.2	13728.0	13789.1	14070.2	13845.0	10937.7
52.5°	8329.0	8313.3	8936.6	9844.6	10960.4	12383.5	14187.2	15165.0	15921.1	15765.7	12100.6
55°	6619.5	6593.3	7174.8	8426.8	9921.4	11915.5	14463.1	15795.4	16947.8	16808.1	13146.5
57.5°	5069.0	5035.8	5552.7	6682.4	8454.7	10922.0	14410.7	16546.2	18360.4	18288.8	14567.9
60°	3488.7	3448.6	3932.3	4920.6	6719.1	9402.8	13831.0	16932.1	20014.0	20038.4	16088.7
62.5°	2095.3	2072.6	2423.6	3190.2	4833.3	7520.5	12474.3	16698.1	21330.6	21440.6	17066.5
65°	1264.2	1248.5	1454.5	1903.3	3066.2	5488.0	10382.4	15502.0	21520.9	21774.1	17089.2
67.5°	920.2	921.9	981.3	1159.4	1788.0	3544.6	7791.2	13357.8	20529.1	20791.0	16011.9
70°	799.7	803.2	834.6	874.8	1080.8	2029.0	5065.5	10544.8	17597.4	17799.9	13429.4
72.5°	710.7	710.7	731.6	752.6	845.1	1236.3	2713.5	7370.4	13888.6	13942.7	10249.7
75°	625.1	619.9	630.3	640.8	733.4	864.3	1320.1	5135.3	10258.4	10132.7	6624.8
77.5°	497.6	492.4	494.2	504.6	588.4	618.1	668.8	3207.6	5781.4	5456.6	2926.5
80°	354.5	351.0	370.2	396.4	434.8	378.9	419.1	1552.3	2292.7	2133.8	1135.0
82.5°	211.3	218.3	247.9	268.9	300.3	237.5	270.6	518.6	811.9	791.0	461.0
85°	29.7	31.4	89.1	103.0	129.2	92.5	143.2	234.0	324.8	347.5	162.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	12.2	41.9	92.5	94.3	40.2
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°	2352.0	2352.0	2352.0	2352.0	2352.0	2352.0	2352.0	2352.0	2352.0	2352.0	2352.0
2.5°	2393.9	2311.9	2194.9	2097.1	2015.0	1948.7	1892.8	1850.9	1838.7	1821.2	1821.2
5°	2481.2	2332.8	2123.3	1974.9	1889.3	1838.7	1803.7	1786.3	1777.5	1767.1	1761.8
7.5°	2601.7	2393.9	2111.1	1960.9	1894.5	1863.1	1840.4	1829.9	1822.9	1812.5	1812.5
10°	2767.6	2484.7	2149.5	2009.8	1957.4	1926.0	1899.8	1882.3	1866.6	1850.9	1847.4
12.5°	2947.4	2603.5	2219.3	2076.1	2020.3	1981.8	1945.2	1919.0	1899.8	1880.6	1875.3
15°	3146.5	2725.7	2294.4	2140.7	2070.9	2018.5	1974.9	1934.7	1908.5	1880.6	1877.1
17.5°	3342.1	2849.7	2357.3	2184.4	2095.3	2030.7	1967.9	1915.5	1882.3	1850.9	1842.2
20°	3576.0	2973.6	2400.9	2196.6	2090.1	2004.5	1929.5	1863.1	1826.4	1789.8	1784.5
22.5°	3790.8	3088.9	2421.9	2179.2	2049.9	1948.7	1861.4	1789.8	1749.6	1712.9	1706.0
25°	3998.6	3190.2	2413.1	2137.2	1988.8	1871.8	1781.0	1709.4	1671.0	1632.6	1622.1
27.5°	4199.4	3258.3	2378.2	2072.6	1912.0	1786.3	1699.0	1634.4	1601.2	1568.0	1554.0
30°	4396.7	3321.1	2324.1	1988.8	1814.2	1697.2	1625.6	1580.2	1547.1	1512.1	1501.7
32.5°	4595.8	3366.5	2242.0	1891.0	1714.7	1618.7	1575.0	1541.8	1506.9	1472.0	1461.5
35°	4796.6	3385.7	2142.5	1779.3	1630.9	1568.0	1552.3	1513.9	1466.7	1424.8	1410.9
37.5°	5035.8	3403.2	2018.5	1669.3	1557.5	1543.6	1540.1	1482.5	1426.6	1369.0	1353.2
40°	5323.9	3425.9	1891.0	1569.8	1498.2	1534.8	1520.9	1442.3	1330.5	1274.7	1257.2
42.5°	5676.6	3467.8	1758.3	1479.0	1454.5	1501.7	1485.9	1344.5	1269.4	1238.0	1229.3
45°	6195.2	3621.4	1625.6	1407.4	1421.3	1454.5	1430.1	1286.9	1257.2	1236.3	1225.8
47.5°	7118.9	3857.2	1510.4	1353.2	1395.1	1412.6	1318.3	1271.2	1248.5	1220.5	1208.3
50°	8079.3	3960.2	1417.8	1320.1	1365.5	1374.2	1257.2	1250.2	1234.5	1204.8	1192.6
52.5°	8728.8	3946.2	1362.0	1307.8	1341.0	1307.8	1229.3	1227.5	1217.0	1182.1	1168.2
55°	9462.2	3970.7	1337.5	1311.3	1330.5	1196.1	1194.3	1199.6	1194.3	1155.9	1148.9
57.5°	10452.3	4045.8	1325.3	1323.6	1323.6	1142.0	1161.2	1168.2	1157.7	1140.2	1135.0
60°	11403.9	4051.0	1302.6	1337.5	1318.3	1108.8	1122.8	1129.7	1117.5	1114.0	1112.3
62.5°	11761.8	3799.6	1252.0	1327.0	1297.4	1072.1	1082.6	1086.1	1073.9	1082.6	1080.8
65°	11229.3	3265.2	1168.2	1276.4	1232.8	1038.9	1032.0	1040.7	1019.7	1042.4	1044.2
67.5°	9970.3	2594.7	1040.7	1180.4	1142.0	1002.3	988.3	988.3	953.4	988.3	986.6
70°	8039.1	1833.4	853.9	1026.7	1042.4	958.6	951.6	911.5	855.6	908.0	902.7
72.5°	6093.9	1316.6	672.3	811.9	897.5	897.5	899.3	831.2	766.5	791.0	770.0
75°	3860.7	927.2	537.8	621.6	703.7	787.5	827.7	701.9	644.3	633.8	623.4
77.5°	1739.1	609.4	419.1	476.7	499.4	621.6	756.1	604.2	525.6	502.9	495.9
80°	728.1	378.9	298.6	337.0	307.3	522.1	667.0	469.7	385.9	354.5	331.8
82.5°	319.5	225.2	190.3	181.6	192.1	387.6	497.6	312.6	241.0	326.5	330.0
85°	134.5	118.7	97.8	89.1	78.6	148.4	234.0	122.2	150.2	85.6	69.8
87.5°	31.4	34.9	26.2	17.5	10.5	1.7	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)