

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: P640145

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640145  
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-SA5D-730-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (80) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

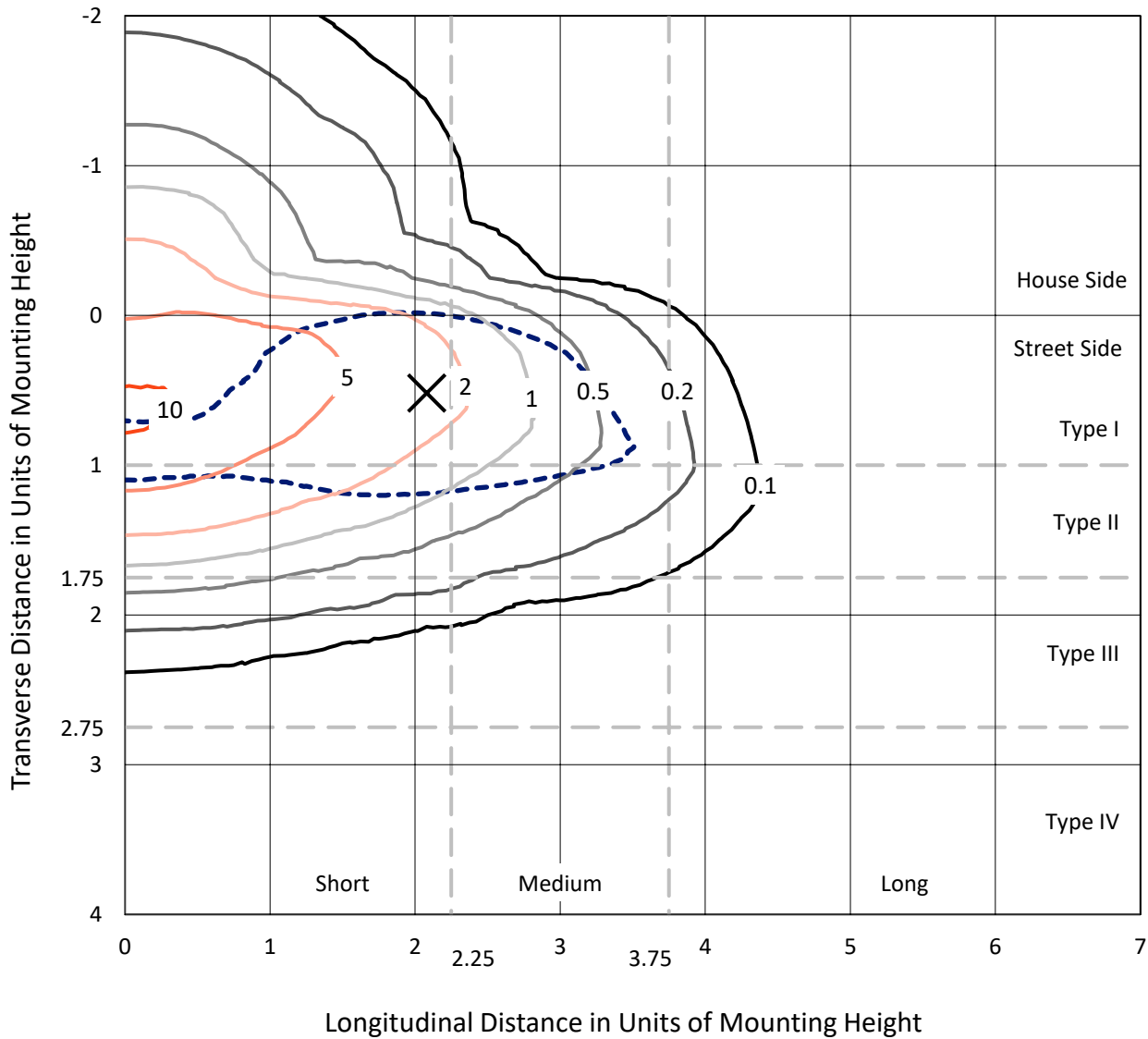
Lumens per Lamp: N/A  
Luminaire Lumens: 27894 lumens  
Efficiency: N/A  
Efficacy: 136.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

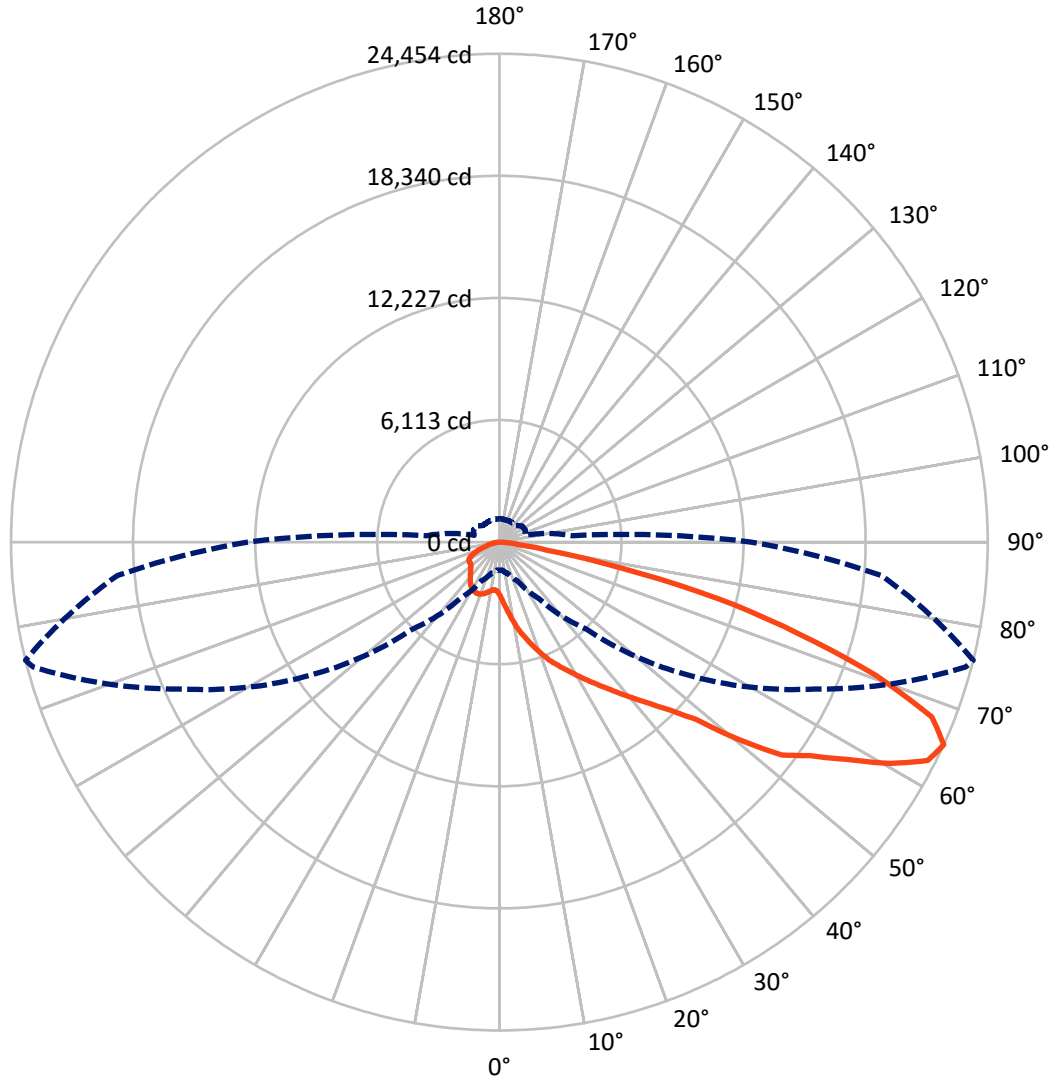
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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	4662.5	0.0	4662.5
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	23231.5	0.0	23231.5
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	27894.0	0.0	27894.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.8	1.1
10°-20°	1195.3	4.3
20°-30°	2329.5	8.4
30°-40°	3895.9	14.0
40°-50°	5578.2	20.0
50°-60°	6603.8	23.7
60°-70°	5491.1	19.7
70°-80°	2247.1	8.1
80°-90°	239.2	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°	27894.0	100.0
0°-180°	27894.0	100.0

**Coefficient of Utilization**



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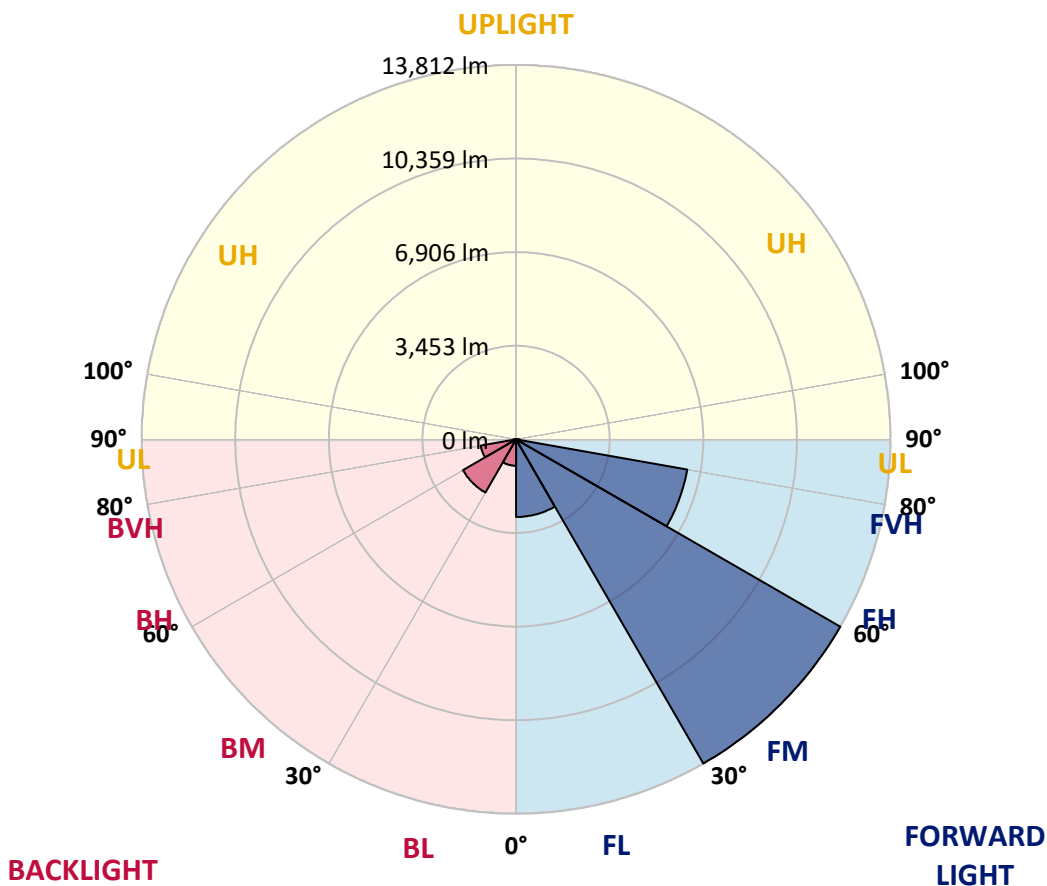
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2863.2	10.3			
FM (30°-60°)	13812.1	49.5			
FH (60°-80°)	6413.5	23.0			G3/7500
FVH (80°-90°)	142.7	0.5			G2/225
BL (0°-30°)	975.4	3.5	B2/1000		
BM (30°-60°)	2265.9	8.1	B2/2500		
BH (60°-80°)	1324.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	96.6	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°	2641.5	2641.5	2641.5	2641.5	2641.5	2641.5	2641.5	2641.5	2641.5	2641.5	2641.5
2.5°	3702.4	3716.1	3671.0	3655.3	3549.4	3406.2	3286.6	3106.2	2939.5	2914.0	2765.0
5°	4702.5	4643.6	4592.6	4559.3	4412.2	4249.5	3996.5	3657.3	3302.3	3259.2	2937.6
7.5°	5296.6	5286.8	5224.1	5204.5	5090.7	4928.0	4667.2	4245.6	3729.8	3659.2	3170.9
10°	5773.2	5767.3	5735.9	5753.6	5649.6	5490.8	5237.8	4802.5	4198.5	4127.9	3431.7
12.5°	6188.9	6198.7	6192.8	6257.5	6204.6	6081.0	5818.3	5339.8	4667.2	4590.7	3749.4
15°	6492.9	6500.7	6530.1	6671.3	6700.7	6675.2	6408.5	5867.3	5130.0	5020.1	4076.9
17.5°	6579.1	6594.8	6665.4	6892.9	7051.7	7157.6	6959.6	6404.6	5584.9	5465.3	4410.3
20°	6694.8	6712.5	6783.1	7020.4	7253.7	7494.9	7459.6	6949.8	6043.8	5945.7	4747.6
22.5°	7230.2	7216.5	7185.1	7298.8	7465.5	7765.5	7853.8	7473.3	6518.3	6424.2	5120.2
25°	8261.7	8236.2	8036.2	7932.2	7877.3	8059.7	8216.6	7949.9	6981.1	6839.9	5467.3
27.5°	9399.0	9385.3	9130.4	8883.3	8546.0	8467.6	8559.7	8365.6	7430.2	7287.1	5769.2
30°	10475.6	10434.4	10167.8	9857.9	9406.9	9069.6	8934.3	8773.5	7922.4	7773.4	6122.2
32.5°	11438.5	11385.5	11071.8	10728.6	10256.0	9857.9	9454.0	9206.9	8479.3	8306.8	6483.0
35°	12228.8	12175.8	11854.2	11489.5	10969.8	10675.7	10122.7	9677.5	9046.1	8871.5	6908.6
37.5°	12840.6	12791.6	12456.2	12097.4	11644.4	11411.0	10930.6	10207.0	9699.1	9516.7	7359.6
40°	13183.8	13148.5	12879.8	12595.5	12215.0	12013.0	11797.3	10875.7	10430.5	10248.2	7891.0
42.5°	13287.7	13264.2	13075.9	12928.8	12671.9	12519.0	12642.5	11662.0	11211.0	11052.2	8489.1
45°	13026.9	13026.9	12972.0	13046.5	13058.3	13056.3	13489.7	12550.4	12169.9	11995.4	9332.4
47.5°	12360.1	12403.3	12483.7	12850.4	13236.7	13560.3	14480.0	13734.8	13403.4	13260.2	10526.6
50°	11140.4	11258.1	11532.6	12248.4	13070.0	13893.6	15417.3	15486.0	15801.7	15548.7	12283.7
52.5°	9353.9	9336.3	10036.4	11056.1	12309.2	13907.4	15933.1	17031.2	17880.3	17705.8	13589.7
55°	7434.1	7404.7	8057.7	9463.8	11142.4	13381.8	16242.9	17739.2	19033.4	18876.5	14764.3
57.5°	5692.8	5655.5	6236.0	7504.7	9495.1	12266.0	16184.1	18582.4	20619.9	20539.4	16360.6
60°	3918.1	3873.0	4416.2	5526.1	7545.9	10560.0	15533.0	19015.8	22476.9	22504.4	18068.6
62.5°	2353.2	2327.7	2721.9	3582.7	5428.0	8446.0	14009.3	18753.0	23955.5	24079.0	19166.8
65°	1419.8	1402.1	1633.5	2137.5	3443.5	6163.4	11660.1	17409.7	24169.2	24453.6	19192.2
67.5°	1033.4	1035.4	1102.1	1302.1	2008.1	3980.8	8750.0	15001.6	23055.4	23349.6	17982.3
70°	898.1	902.1	937.4	982.5	1213.9	2278.7	5688.8	11842.4	19762.9	19990.4	15082.0
72.5°	798.1	798.1	821.7	845.2	949.1	1388.4	3047.4	8277.4	15597.7	15658.5	11511.0
75°	702.0	696.2	707.9	719.7	823.6	970.7	1482.5	5767.3	11520.8	11379.6	7440.0
77.5°	558.9	553.0	555.0	566.7	660.9	694.2	751.1	3602.3	6492.9	6128.1	3286.6
80°	398.1	394.2	415.7	445.1	488.3	425.5	470.6	1743.3	2574.8	2396.3	1274.6
82.5°	237.3	245.1	278.5	302.0	337.3	266.7	304.0	582.4	911.9	888.3	517.7
85°	33.3	35.3	100.0	115.7	145.1	103.9	160.8	262.8	364.7	390.2	182.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	13.7	47.1	103.9	105.9	45.1
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°	2641.5	2641.5	2641.5	2641.5	2641.5	2641.5	2641.5	2641.5	2641.5	2641.5	2641.5
2.5°	2688.5	2596.4	2465.0	2355.2	2263.0	2188.5	2125.7	2078.7	2064.9	2045.3	2045.3
5°	2786.6	2619.9	2384.6	2217.9	2121.8	2064.9	2025.7	2006.1	1996.3	1984.5	1978.6
7.5°	2921.9	2688.5	2370.8	2202.2	2127.7	2092.4	2066.9	2055.1	2047.3	2035.5	2035.5
10°	3108.2	2790.5	2414.0	2257.1	2198.3	2163.0	2133.6	2114.0	2096.3	2078.7	2074.7
12.5°	3310.2	2923.8	2492.4	2331.6	2268.9	2225.7	2184.5	2155.1	2133.6	2112.0	2106.1
15°	3533.7	3061.1	2576.7	2404.2	2325.7	2266.9	2217.9	2172.8	2143.4	2112.0	2108.1
17.5°	3753.3	3200.3	2647.3	2453.2	2353.2	2280.6	2210.0	2151.2	2114.0	2078.7	2068.8
20°	4016.1	3339.6	2696.4	2466.9	2347.3	2251.2	2166.9	2092.4	2051.2	2010.0	2004.1
22.5°	4257.3	3469.0	2719.9	2447.3	2302.2	2188.5	2090.4	2010.0	1964.9	1923.7	1915.9
25°	4490.7	3582.7	2710.1	2400.3	2233.6	2102.2	2000.2	1919.8	1876.7	1833.5	1821.8
27.5°	4716.2	3659.2	2670.9	2327.7	2147.3	2006.1	1908.0	1835.5	1798.2	1761.0	1745.3
30°	4937.8	3729.8	2610.1	2233.6	2037.5	1906.1	1825.7	1774.7	1737.4	1698.2	1686.5
32.5°	5161.3	3780.8	2517.9	2123.8	1925.7	1817.8	1768.8	1731.6	1692.3	1653.1	1641.4
35°	5386.9	3802.4	2406.1	1998.3	1831.6	1761.0	1743.3	1700.2	1647.2	1600.2	1584.5
37.5°	5655.5	3822.0	2266.9	1874.7	1749.2	1733.5	1729.6	1664.9	1602.1	1537.4	1519.8
40°	5979.1	3847.5	2123.8	1762.9	1682.5	1723.7	1708.0	1619.8	1494.3	1431.5	1411.9
42.5°	6375.2	3894.5	1974.7	1661.0	1633.5	1686.5	1668.8	1510.0	1425.6	1390.3	1380.5
45°	6957.6	4067.1	1825.7	1580.6	1596.2	1633.5	1606.1	1445.3	1411.9	1388.4	1376.6
47.5°	7995.0	4331.8	1696.3	1519.8	1566.8	1586.4	1480.6	1427.6	1402.1	1370.7	1357.0
50°	9073.5	4447.5	1592.3	1482.5	1533.5	1543.3	1411.9	1404.1	1386.4	1353.1	1339.4
52.5°	9803.0	4431.8	1529.6	1468.8	1506.0	1468.8	1380.5	1378.6	1366.8	1327.6	1311.9
55°	10626.6	4459.3	1502.1	1472.7	1494.3	1343.3	1341.3	1347.2	1341.3	1298.2	1290.3
57.5°	11738.5	4543.6	1488.4	1486.4	1486.4	1282.5	1304.1	1311.9	1300.1	1280.5	1274.6
60°	12807.3	4549.5	1462.9	1502.1	1480.6	1245.2	1260.9	1268.8	1255.0	1251.1	1249.2
62.5°	13209.3	4267.1	1406.0	1490.4	1457.0	1204.1	1215.8	1219.7	1206.0	1215.8	1213.9
65°	12611.2	3667.1	1311.9	1433.5	1384.5	1166.8	1158.9	1168.8	1145.2	1170.7	1172.7
67.5°	11197.3	2914.0	1168.8	1325.6	1282.5	1125.6	1109.9	1109.9	1070.7	1109.9	1108.0
70°	9028.4	2059.0	958.9	1153.1	1170.7	1076.6	1068.7	1023.6	960.9	1019.7	1013.8
72.5°	6843.9	1478.6	755.0	911.9	1008.0	1008.0	1009.9	933.4	860.9	888.3	864.8
75°	4335.8	1041.3	604.0	698.1	790.3	884.4	929.5	788.3	723.6	711.8	700.1
77.5°	1953.1	684.4	470.6	535.4	560.8	698.1	849.1	678.5	590.3	564.8	556.9
80°	817.7	425.5	335.3	378.5	345.1	586.3	749.1	527.5	433.4	398.1	372.6
82.5°	358.9	253.0	213.7	203.9	215.7	435.3	558.9	351.0	270.6	366.7	370.6
85°	151.0	133.3	109.8	100.0	88.2	166.7	262.8	137.3	168.6	96.1	78.4
87.5°	35.3	39.2	29.4	19.6	11.8	2.0	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)