

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: P633374

Luminaire Tested: GWS-SA2E-750-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633374  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-750-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

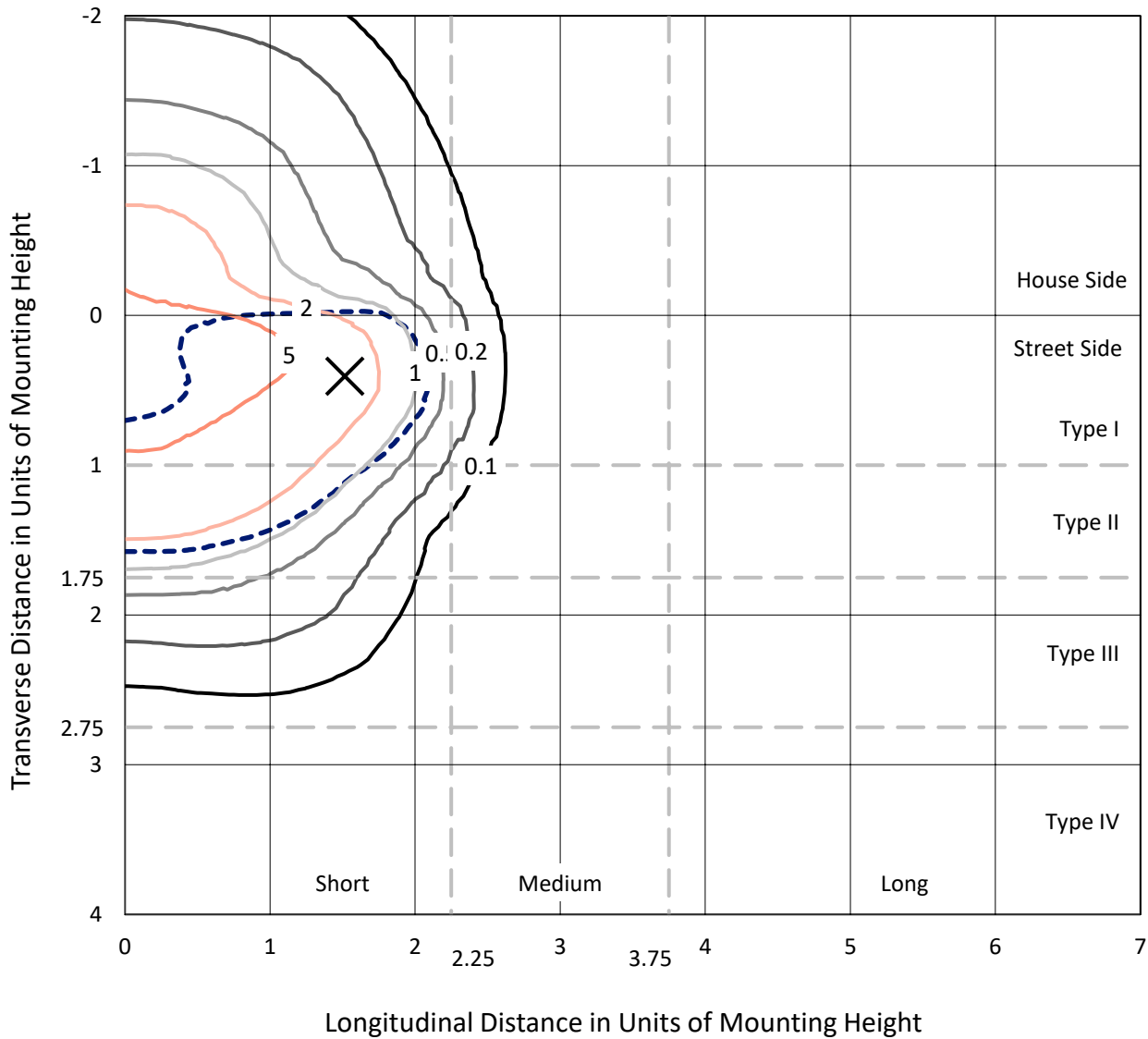
Lumens per Lamp: N/A  
Luminaire Lumens: 12443.6 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

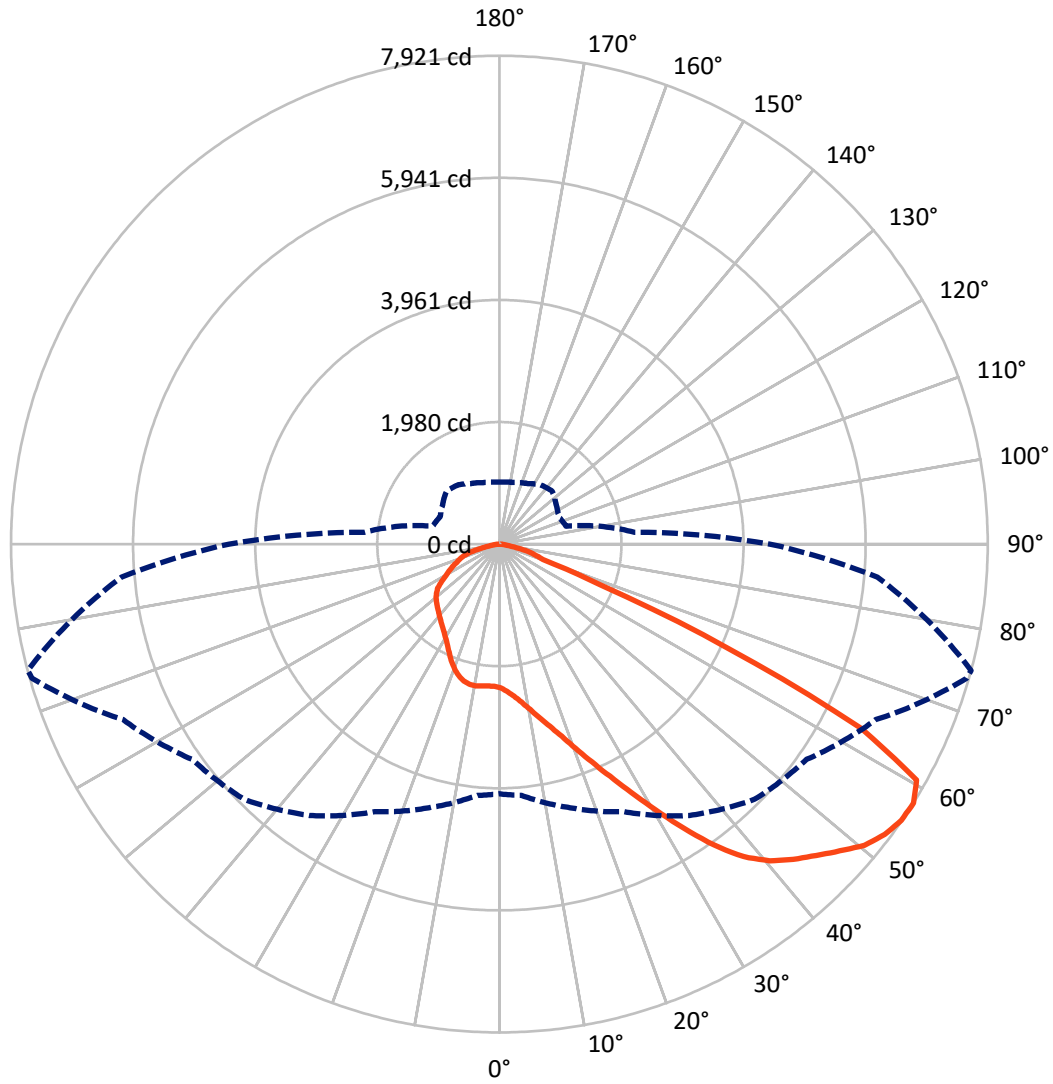
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3366.2	0.0	3366.2
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	9077.4	0.0	9077.4
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	12443.6	0.0	12443.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.2	1.9
10°-20°	742.5	6.0
20°-30°	1316.7	10.6
30°-40°	2015.7	16.2
40°-50°	2806.7	22.6
50°-60°	3215.9	25.8
60°-70°	1652.4	13.3
70°-80°	416.0	3.3
80°-90°	44.5	0.4
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°	12443.6	100.0
0°-180°	12443.6	100.0

**Coefficient of Utilization**



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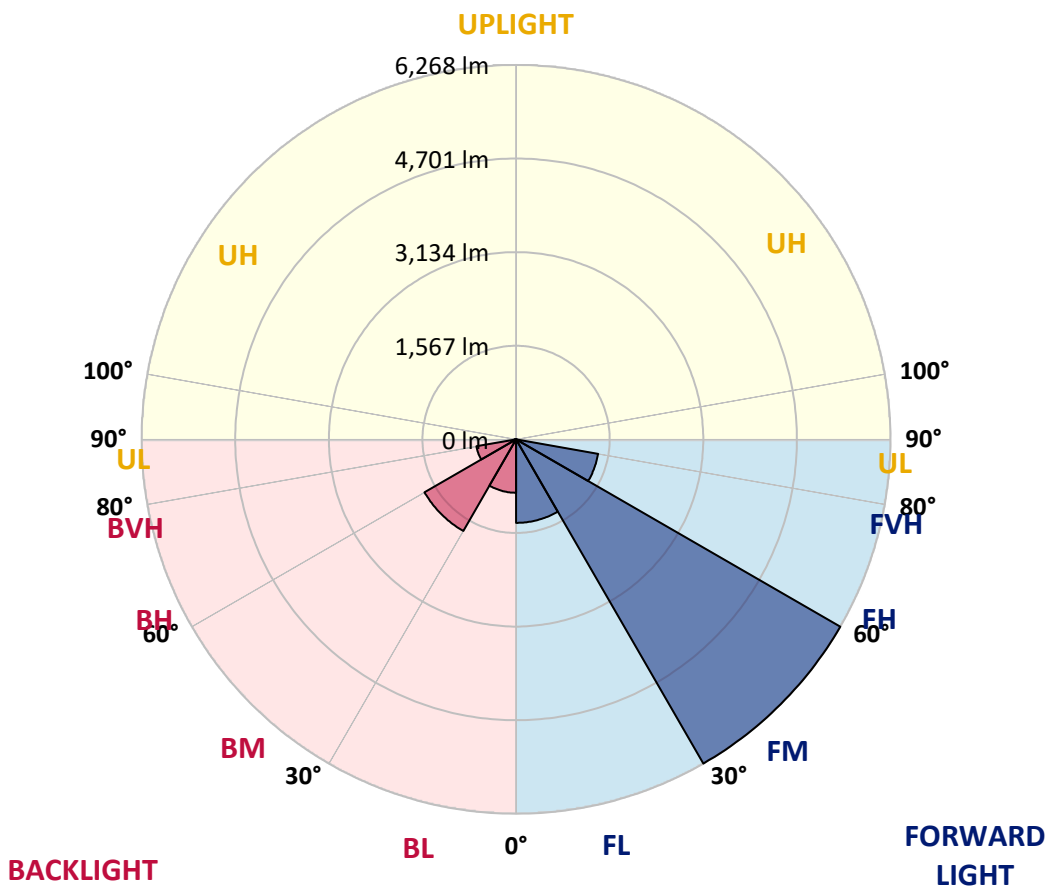
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1398.1	11.2			
FM (30°-60°)	6268.0	50.4			
FH (60°-80°)	1394.8	11.2			G1/1800
FVH (80°-90°)	16.5	0.1			G1/100
BL (0°-30°)	894.3	7.2	B2/1000		
BM (30°-60°)	1770.3	14.2	B2/2500		
BH (60°-80°)	673.6	5.4	B2/1000		G2/1000
BVH (80°-90°)	28.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4
2.5°	2503.7	2510.1	2503.7	2514.4	2493.0	2483.4	2459.9	2424.5	2396.7	2392.4	2361.4
5°	2698.5	2712.4	2703.8	2699.5	2670.6	2649.2	2613.9	2543.3	2485.5	2477.0	2416.0
7.5°	2823.6	2833.3	2833.3	2836.5	2825.8	2801.2	2763.7	2680.3	2598.9	2586.1	2494.1
10°	2865.4	2872.9	2886.8	2913.5	2934.9	2942.4	2917.8	2837.6	2738.0	2725.2	2596.8
12.5°	2875.0	2883.6	2905.0	2954.2	3013.0	3066.5	3070.8	3012.0	2900.7	2886.8	2715.6
15°	2893.2	2901.7	2930.6	2991.6	3078.3	3181.0	3244.1	3203.5	3080.4	3065.5	2850.4
17.5°	2891.1	2900.7	2943.5	3024.8	3141.4	3290.1	3412.1	3429.2	3301.9	3276.2	3003.4
20°	2885.7	2894.3	2940.3	3039.8	3184.2	3388.6	3609.0	3697.8	3560.8	3537.3	3182.1
22.5°	2928.5	2938.1	2973.4	3055.8	3206.7	3464.6	3790.9	4004.9	3867.9	3834.8	3387.5
25°	3024.8	3038.7	3060.1	3116.8	3247.3	3532.0	3977.1	4352.6	4212.5	4172.9	3611.1
27.5°	3173.5	3190.6	3220.6	3247.3	3338.3	3617.6	4162.2	4742.1	4601.9	4560.2	3847.6
30°	3355.4	3377.9	3416.4	3434.6	3496.7	3743.8	4363.3	5143.3	5062.0	5004.2	4114.0
32.5°	3606.9	3637.9	3674.3	3679.6	3717.1	3935.3	4562.3	5541.4	5540.3	5499.6	4416.8
35°	3934.3	3967.4	3974.9	3982.4	4000.6	4198.5	4803.1	5904.1	6044.2	5997.2	4746.4
37.5°	4291.6	4339.8	4351.6	4318.4	4344.1	4515.3	5073.8	6195.1	6482.9	6432.6	5065.2
40°	4673.6	4692.9	4725.0	4672.5	4704.6	4878.0	5339.1	6381.3	6810.3	6756.8	5316.7
42.5°	4947.5	4982.8	5031.0	5011.7	5029.9	5188.3	5525.3	6471.2	7043.6	6990.1	5497.5
45°	5245.0	5255.7	5286.7	5282.4	5293.1	5440.8	5659.1	6510.7	7252.2	7204.1	5651.6
47.5°	5503.9	5520.0	5540.3	5516.7	5493.2	5589.5	5768.2	6545.0	7493.0	7435.2	5813.1
50°	5753.2	5767.1	5791.7	5723.3	5635.5	5660.1	5821.7	6592.1	7718.7	7678.1	5940.5
52.5°	5799.2	5814.2	5929.8	5943.7	5831.3	5744.7	5915.8	6695.9	7851.4	7825.7	5986.5
55°	5220.4	5247.1	5477.2	5741.4	6018.6	5990.7	6066.7	6750.4	7903.8	7910.3	6068.9
57.5°	4052.0	4090.5	4426.5	4789.2	5372.3	5854.9	6086.0	6736.5	7885.7	7921.0	6153.4
60°	2657.8	2680.3	3078.3	3484.9	4089.4	4757.1	5447.2	6486.1	7724.1	7774.4	6132.0
62.5°	1605.0	1630.6	1950.5	2258.7	2615.0	3061.2	3694.6	5212.9	6474.4	6586.7	4911.1
65°	1120.3	1154.5	1434.8	1688.4	1811.5	1719.4	1871.4	2911.4	4033.8	4080.9	3001.3
67.5°	812.1	835.6	1065.7	1367.4	1503.3	1214.4	925.5	1289.3	1756.9	1774.0	1238.0
70°	531.8	558.5	767.2	1041.1	1227.3	984.4	692.3	697.6	739.3	747.9	719.0
72.5°	292.1	308.2	474.0	691.2	725.4	588.5	540.3	579.9	608.8	608.8	616.3
75°	150.9	164.8	193.7	227.9	275.0	322.1	389.5	448.3	479.3	481.5	478.3
77.5°	77.0	82.4	103.8	112.3	123.0	143.4	186.2	238.6	266.4	277.1	275.0
80°	36.4	38.5	43.9	51.4	63.1	80.2	100.6	119.8	137.0	139.1	150.9
82.5°	19.3	21.4	23.5	27.8	34.2	42.8	58.8	70.6	81.3	83.5	93.1
85°	7.5	8.6	9.6	10.7	15.0	18.2	24.6	33.2	40.7	40.7	48.1
87.5°	0.0	0.0	0.0	0.0	1.1	2.1	4.3	5.3	7.5	7.5	12.8
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°	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4	2330.4
2.5°	2353.9	2322.9	2309.0	2286.5	2268.3	2248.0	2232.0	2220.2	2212.7	2208.4	2204.1
5°	2392.4	2345.4	2307.9	2263.0	2232.0	2202.0	2177.4	2160.3	2151.7	2145.3	2141.0
7.5°	2452.4	2389.2	2318.6	2249.1	2194.5	2146.4	2115.3	2097.1	2085.4	2081.1	2077.9
10°	2534.8	2447.0	2330.4	2220.2	2138.9	2086.4	2065.0	2056.5	2057.5	2055.4	2054.3
12.5°	2627.8	2508.0	2327.2	2168.8	2078.9	2047.9	2049.0	2062.9	2078.9	2083.2	2084.3
15°	2728.4	2567.9	2296.1	2102.5	2031.9	2035.1	2062.9	2096.1	2126.0	2137.8	2139.9
17.5°	2837.6	2618.2	2239.4	2029.7	1993.3	2027.6	2078.9	2133.5	2177.4	2196.6	2202.0
20°	2959.5	2661.0	2159.2	1958.0	1957.0	2013.7	2088.6	2160.3	2215.9	2241.6	2245.9
22.5°	3089.0	2687.8	2060.8	1891.7	1919.5	1995.5	2081.1	2156.0	2214.8	2240.5	2245.9
25°	3219.5	2696.3	1952.7	1830.7	1881.0	1966.6	2044.7	2104.6	2160.3	2182.7	2187.0
27.5°	3341.5	2671.7	1850.0	1778.3	1845.7	1923.8	1976.2	2008.3	2046.8	2064.0	2067.2
30°	3465.6	2622.5	1763.3	1736.6	1806.1	1865.0	1888.5	1890.6	1905.6	1905.6	1907.8
32.5°	3590.8	2549.7	1687.3	1695.9	1756.9	1795.4	1798.6	1774.0	1755.8	1725.9	1724.8
35°	3735.3	2475.9	1625.3	1649.9	1699.1	1722.6	1713.0	1665.9	1622.1	1572.9	1570.7
37.5°	3869.0	2399.9	1572.9	1602.8	1633.8	1651.0	1628.5	1571.8	1535.4	1485.1	1477.6
40°	3979.2	2331.5	1522.6	1553.6	1568.6	1583.6	1547.2	1501.2	1506.5	1478.7	1477.6
42.5°	4043.4	2265.1	1475.5	1499.0	1508.7	1519.4	1487.3	1453.0	1481.9	1460.5	1461.6
45°	4090.5	2207.3	1432.7	1441.2	1464.8	1480.8	1450.9	1412.4	1418.8	1336.4	1317.1
47.5°	4144.0	2175.2	1392.0	1383.5	1425.2	1453.0	1407.0	1351.4	1312.8	1231.5	1224.0
50°	4200.7	2163.5	1349.2	1325.7	1376.0	1402.7	1349.2	1279.7	1229.4	1185.5	1181.2
52.5°	4219.9	2162.4	1295.7	1256.1	1306.4	1343.9	1298.9	1228.3	1168.4	1125.6	1123.5
55°	4295.9	2193.4	1227.3	1160.9	1208.0	1285.0	1251.9	1150.2	1102.1	1082.8	1080.7
57.5°	4384.7	2198.8	1119.2	1057.1	1122.4	1213.3	1171.6	1083.9	1031.4	1007.9	1005.8
60°	4348.3	2067.2	1003.6	977.9	1049.6	1145.9	1107.4	1031.4	970.5	948.0	945.9
62.5°	3313.7	1459.4	919.1	909.5	971.5	1048.6	1041.1	961.9	904.1	888.1	885.9
65°	1993.3	1025.0	837.8	836.7	880.6	954.4	964.0	899.8	838.9	816.4	816.4
67.5°	985.4	784.3	745.8	740.4	768.2	820.7	861.3	808.9	757.5	736.1	732.9
70°	696.5	691.2	678.4	663.4	668.7	690.1	707.2	663.4	608.8	587.4	583.1
72.5°	602.4	603.5	594.9	583.1	578.9	563.9	548.9	516.8	483.6	461.2	463.3
75°	467.6	469.7	475.1	470.8	459.0	443.0	426.9	386.3	359.5	338.1	333.8
77.5°	272.8	283.5	300.7	296.4	298.5	276.1	269.6	230.0	205.4	190.5	187.2
80°	154.1	160.5	168.0	173.3	166.9	157.3	143.4	122.0	114.5	103.8	101.6
82.5°	93.1	99.5	102.7	107.0	104.9	92.0	81.3	67.4	61.0	55.6	54.6
85°	47.1	51.4	54.6	56.7	50.3	41.7	37.4	30.0	25.7	22.5	22.5
87.5°	11.8	12.8	15.0	12.8	11.8	5.3	4.3	1.1	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)