

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: P635195

Luminaire Tested: GWS-SA3D-730-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635195  
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-SA3D-730-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16340.5 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

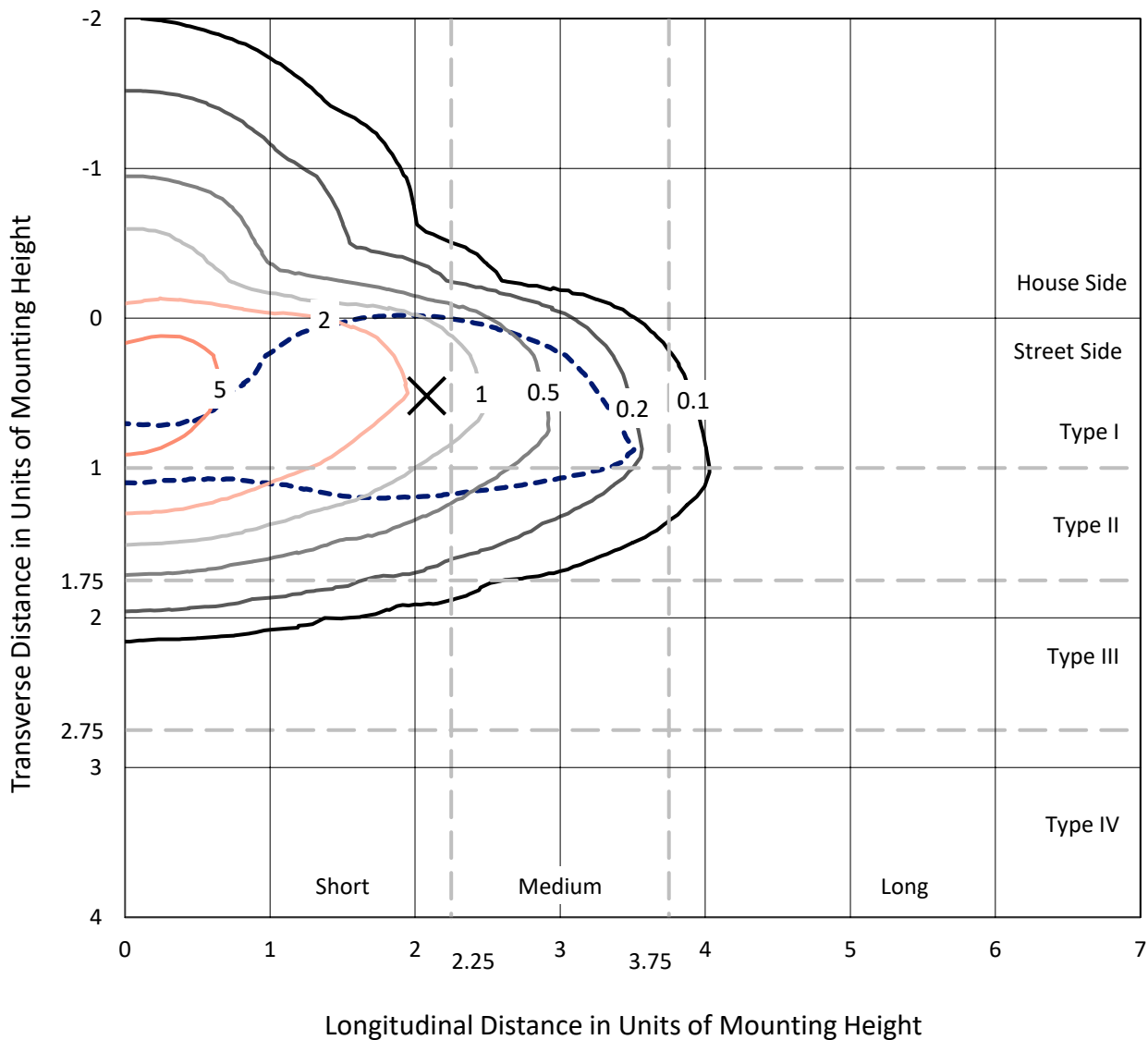
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

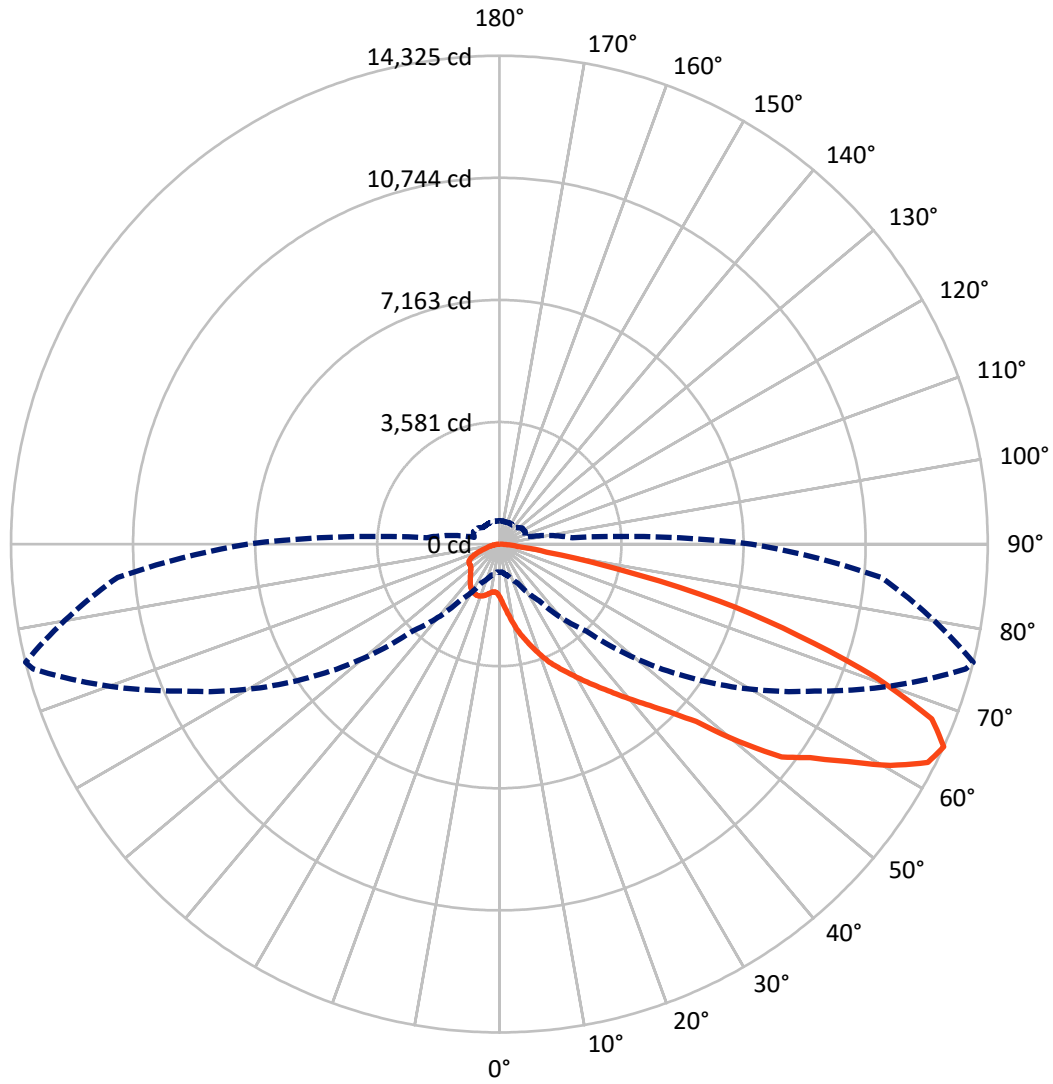
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	2731.3	0.0	2731.3
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	13609.2	0.0	13609.2
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	16340.5	0.0	16340.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.8	1.1
10°-20°	700.2	4.3
20°-30°	1364.6	8.4
30°-40°	2282.3	14.0
40°-50°	3267.7	20.0
50°-60°	3868.6	23.7
60°-70°	3216.7	19.7
70°-80°	1316.4	8.1
80°-90°	140.1	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°	16340.5	100.0
0°-180°	16340.5	100.0

**Coefficient of Utilization**



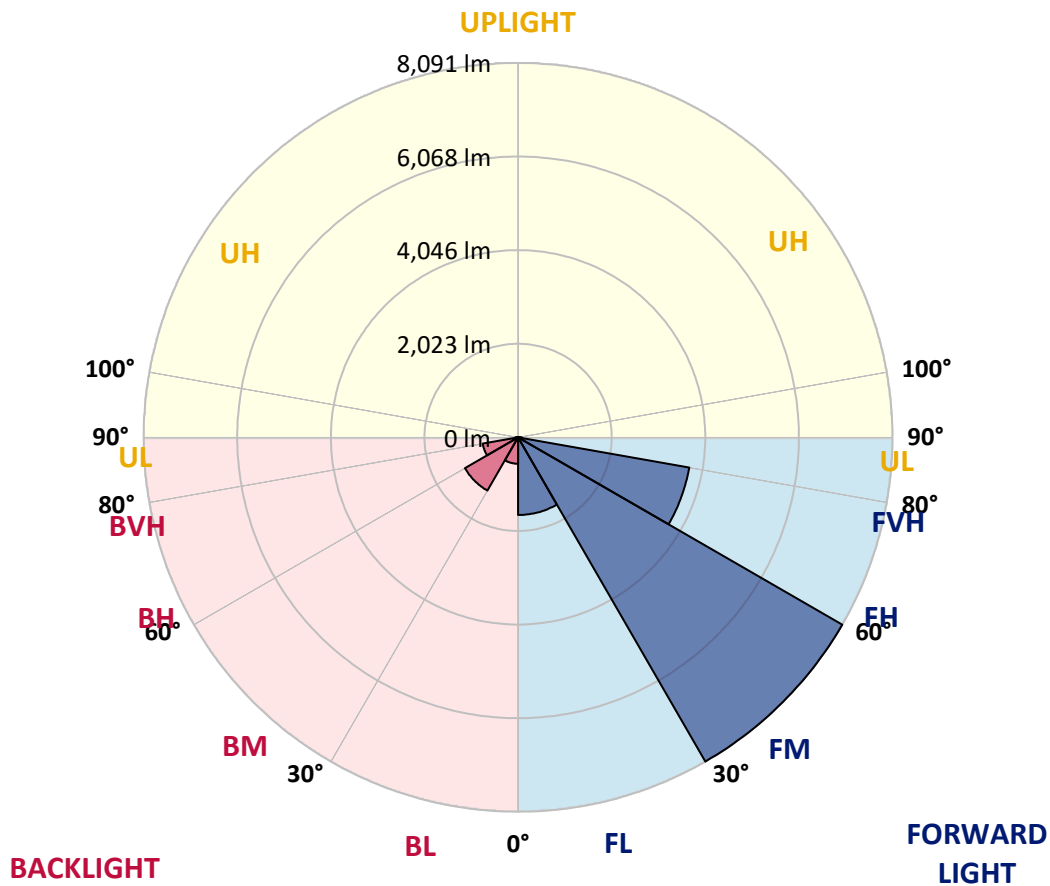
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1677.3	10.3			
FM (30°-60°)	8091.2	49.5			
FH (60°-80°)	3757.1	23.0			G2/5000
FVH (80°-90°)	83.6	0.5			G1/100
BL (0°-30°)	571.4	3.5	B2/1000		
BM (30°-60°)	1327.4	8.1	B2/2500		
BH (60°-80°)	776.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	56.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4
2.5°	2168.9	2176.9	2150.5	2141.3	2079.3	1995.4	1925.3	1819.6	1722.0	1707.1	1619.8
5°	2754.7	2720.3	2690.4	2670.9	2584.7	2489.4	2341.2	2142.4	1934.5	1909.2	1720.8
7.5°	3102.8	3097.1	3060.3	3048.8	2982.2	2886.8	2734.1	2487.1	2184.9	2143.6	1857.6
10°	3382.0	3378.5	3360.1	3370.5	3309.6	3216.5	3068.3	2813.3	2459.5	2418.1	2010.3
12.5°	3625.5	3631.2	3627.8	3665.7	3634.7	3562.3	3408.4	3128.1	2734.1	2689.3	2196.4
15°	3803.6	3808.2	3825.4	3908.1	3925.3	3910.4	3754.2	3437.1	3005.2	2940.8	2388.3
17.5°	3854.1	3863.3	3904.6	4037.9	4131.0	4193.0	4077.0	3751.9	3271.7	3201.6	2583.6
20°	3921.9	3932.2	3973.6	4112.6	4249.3	4390.6	4369.9	4071.2	3540.5	3483.1	2781.2
22.5°	4235.5	4227.5	4209.1	4275.7	4373.3	4549.1	4600.8	4377.9	3818.5	3763.4	2999.4
25°	4839.7	4824.8	4707.6	4646.7	4614.6	4721.4	4813.3	4657.1	4089.6	4006.9	3202.8
27.5°	5506.0	5498.0	5348.6	5203.9	5006.3	4960.4	5014.4	4900.6	4352.7	4268.8	3379.7
30°	6136.7	6112.6	5956.3	5774.8	5510.6	5313.0	5233.8	5139.6	4641.0	4553.7	3586.4
32.5°	6700.7	6669.7	6485.9	6284.9	6008.0	5774.8	5538.2	5393.4	4967.3	4866.2	3797.8
35°	7163.7	7132.7	6944.3	6730.6	6426.2	6253.9	5929.9	5669.1	5299.2	5197.0	4047.1
37.5°	7522.1	7493.4	7296.9	7086.7	6821.4	6684.7	6403.2	5979.3	5681.8	5575.0	4311.3
40°	7723.1	7702.5	7545.1	7378.5	7155.7	7037.3	6911.0	6371.0	6110.3	6003.4	4622.6
42.5°	7784.0	7770.2	7660.0	7573.8	7423.3	7333.7	7406.1	6831.7	6567.5	6474.4	4973.0
45°	7631.2	7631.2	7599.1	7642.7	7649.6	7648.5	7902.3	7352.1	7129.2	7027.0	5467.0
47.5°	7240.7	7265.9	7313.0	7527.8	7754.2	7943.7	8482.5	8045.9	7851.8	7767.9	6166.6
50°	6526.1	6595.1	6755.9	7175.2	7656.5	8139.0	9031.6	9071.8	9256.7	9108.5	7195.9
52.5°	5479.6	5469.3	5879.4	6476.7	7210.8	8147.0	9333.7	9977.0	10474.4	10372.2	7960.9
55°	4355.0	4337.7	4720.3	5543.9	6527.3	7839.2	9515.2	10391.7	11149.9	11058.0	8649.0
57.5°	3334.9	3313.0	3653.1	4396.3	5562.3	7185.5	9480.7	10885.7	12079.3	12032.2	9584.1
60°	2295.2	2268.8	2587.0	3237.2	4420.4	6186.1	9099.4	11139.6	13167.1	13183.2	10584.7
62.5°	1378.5	1363.6	1594.5	2098.8	3179.8	4947.7	8206.8	10985.6	14033.3	14105.7	11228.0
65°	831.7	821.4	956.9	1252.2	2017.2	3610.6	6830.6	10198.7	14158.5	14325.1	11243.0
67.5°	605.4	606.5	645.6	762.8	1176.3	2332.0	5125.8	8788.0	13506.0	13678.3	10534.2
70°	526.1	528.4	549.1	575.5	711.1	1334.9	3332.6	6937.4	11577.2	11710.5	8835.1
72.5°	467.5	467.5	481.3	495.1	556.0	813.3	1785.2	4848.9	9137.3	9172.9	6743.2
75°	411.3	407.8	414.7	421.6	482.5	568.6	868.5	3378.5	6749.0	6666.3	4358.4
77.5°	327.4	324.0	325.1	332.0	387.1	406.7	440.0	2110.3	3803.6	3589.9	1925.3
80°	233.2	230.9	243.5	260.8	286.0	249.3	275.7	1021.3	1508.3	1403.8	746.7
82.5°	139.0	143.6	163.1	176.9	197.6	156.2	178.1	341.2	534.2	520.4	303.3
85°	19.5	20.7	58.6	67.8	85.0	60.9	94.2	153.9	213.7	228.6	106.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.0	27.6	60.9	62.0	26.4
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°	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4
2.5°	1575.0	1521.0	1444.0	1379.7	1325.7	1282.0	1245.3	1217.7	1209.6	1198.2	1198.2
5°	1632.4	1534.7	1396.9	1299.3	1243.0	1209.6	1186.7	1175.2	1169.4	1162.5	1159.1
7.5°	1711.7	1575.0	1388.9	1290.1	1246.4	1225.7	1210.8	1203.9	1199.3	1192.4	1192.4
10°	1820.8	1634.7	1414.1	1322.2	1287.8	1267.1	1249.9	1238.4	1228.0	1217.7	1215.4
12.5°	1939.1	1712.8	1460.1	1365.9	1329.1	1303.8	1279.7	1262.5	1249.9	1237.2	1233.8
15°	2070.1	1793.2	1509.5	1408.4	1362.4	1328.0	1299.3	1272.8	1255.6	1237.2	1234.9
17.5°	2198.7	1874.8	1550.8	1437.1	1378.5	1336.0	1294.7	1260.2	1238.4	1217.7	1211.9
20°	2352.7	1956.3	1579.6	1445.1	1375.1	1318.8	1269.4	1225.7	1201.6	1177.5	1174.0
22.5°	2494.0	2032.2	1593.3	1433.7	1348.6	1282.0	1224.6	1177.5	1151.1	1126.9	1122.3
25°	2630.7	2098.8	1587.6	1406.1	1308.4	1231.5	1171.7	1124.6	1099.4	1074.1	1067.2
27.5°	2762.8	2143.6	1564.6	1363.6	1257.9	1175.2	1117.7	1075.2	1053.4	1031.6	1022.4
30°	2892.6	2184.9	1529.0	1308.4	1193.6	1116.6	1069.5	1039.6	1017.8	994.8	987.9
32.5°	3023.5	2214.8	1475.0	1244.1	1128.1	1064.9	1036.2	1014.4	991.4	968.4	961.5
35°	3155.7	2227.5	1409.5	1170.6	1072.9	1031.6	1021.3	996.0	965.0	937.4	928.2
37.5°	3313.0	2238.9	1328.0	1098.2	1024.7	1015.5	1013.2	975.3	938.5	900.6	890.3
40°	3502.6	2253.9	1244.1	1032.7	985.6	1009.8	1000.6	948.9	875.4	838.6	827.1
42.5°	3734.6	2281.4	1156.8	973.0	956.9	987.9	977.6	884.5	835.2	814.5	808.7
45°	4075.8	2382.5	1069.5	925.9	935.1	956.9	940.8	846.6	827.1	813.3	806.4
47.5°	4683.5	2537.6	993.7	890.3	917.9	929.3	867.3	836.3	821.4	803.0	794.9
50°	5315.3	2605.4	932.8	868.5	898.3	904.1	827.1	822.5	812.2	792.6	784.6
52.5°	5742.7	2596.2	896.0	860.4	882.3	860.4	808.7	807.6	800.7	777.7	768.5
55°	6225.2	2612.3	880.0	862.7	875.4	786.9	785.8	789.2	785.8	760.5	755.9
57.5°	6876.5	2661.7	871.9	870.8	870.8	751.3	763.9	768.5	761.6	750.1	746.7
60°	7502.6	2665.1	857.0	880.0	867.3	729.5	738.7	743.3	735.2	732.9	731.8
62.5°	7738.1	2499.7	823.7	873.1	853.5	705.3	712.2	714.5	706.5	712.2	711.1
65°	7387.7	2148.2	768.5	839.7	811.0	683.5	678.9	684.7	670.9	685.8	687.0
67.5°	6559.4	1707.1	684.7	776.6	751.3	659.4	650.2	650.2	627.2	650.2	649.1
70°	5288.9	1206.2	561.7	675.5	685.8	630.7	626.1	599.7	562.9	597.4	593.9
72.5°	4009.2	866.2	442.3	534.2	590.5	590.5	591.6	546.8	504.3	520.4	506.6
75°	2539.9	610.0	353.8	409.0	463.0	518.1	544.5	461.8	423.9	417.0	410.1
77.5°	1144.2	400.9	275.7	313.6	328.5	409.0	497.4	397.5	345.8	330.8	326.2
80°	479.0	249.3	196.4	221.7	202.2	343.5	438.8	309.0	253.9	233.2	218.3
82.5°	210.2	148.2	125.2	119.5	126.4	255.0	327.4	205.6	158.5	214.8	217.1
85°	88.5	78.1	64.3	58.6	51.7	97.6	153.9	80.4	98.8	56.3	46.0
87.5°	20.7	23.0	17.2	11.5	6.9	1.1	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)