

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: P632779

Luminaire Tested: GWS-SA2D-735-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-735-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11523.9 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

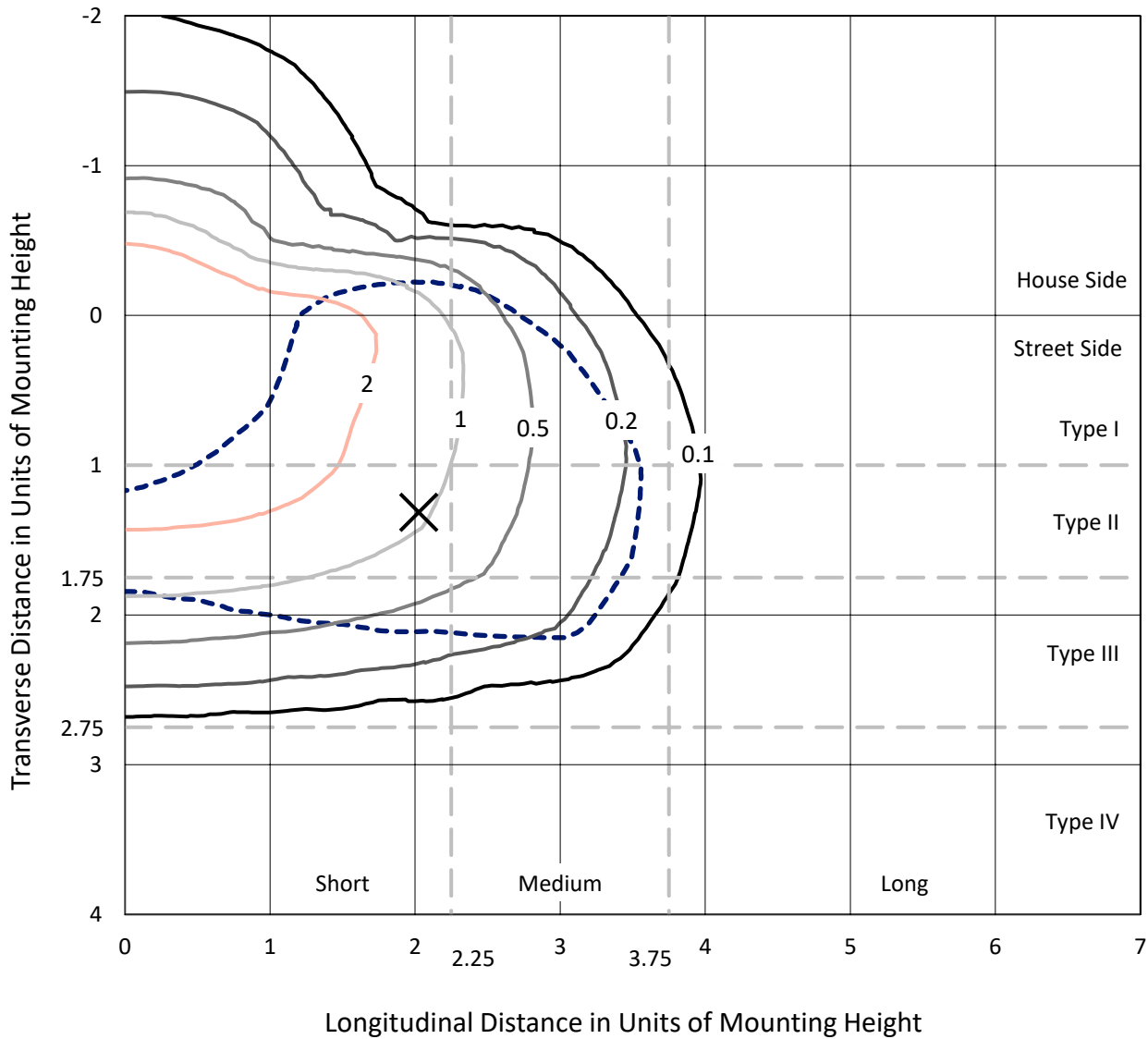
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

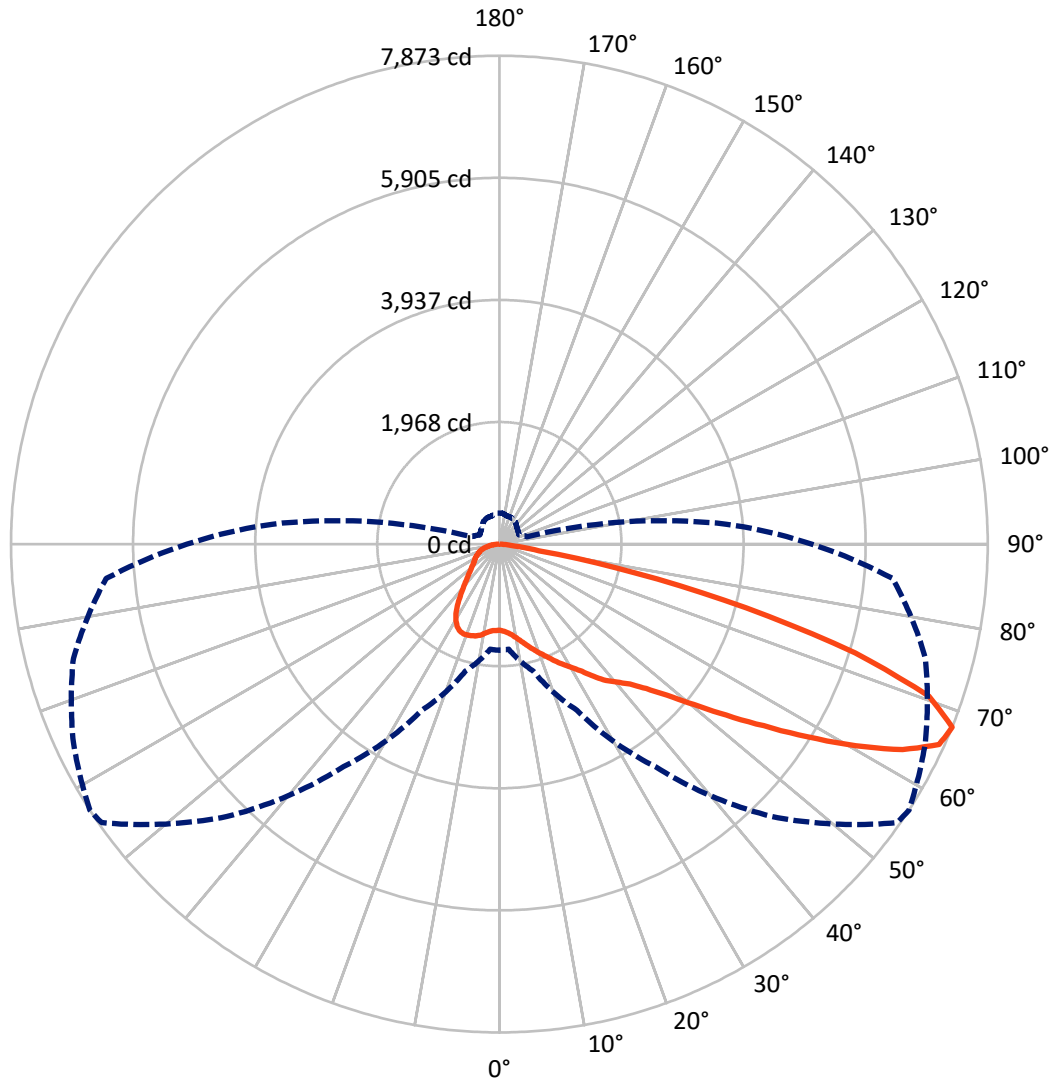
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2533.7	0.0	2533.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	8990.2	0.0	8990.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	11523.9	0.0	11523.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	1.2
10°-20°	455.9	4.0
20°-30°	812.8	7.1
30°-40°	1181.7	10.3
40°-50°	1710.3	14.8
50°-60°	2676.6	23.2
60°-70°	3122.4	27.1
70°-80°	1303.4	11.3
80°-90°	123.0	1.1
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°	11523.9	100.0
0°-180°	11523.9	100.0

Coefficient of Utilization



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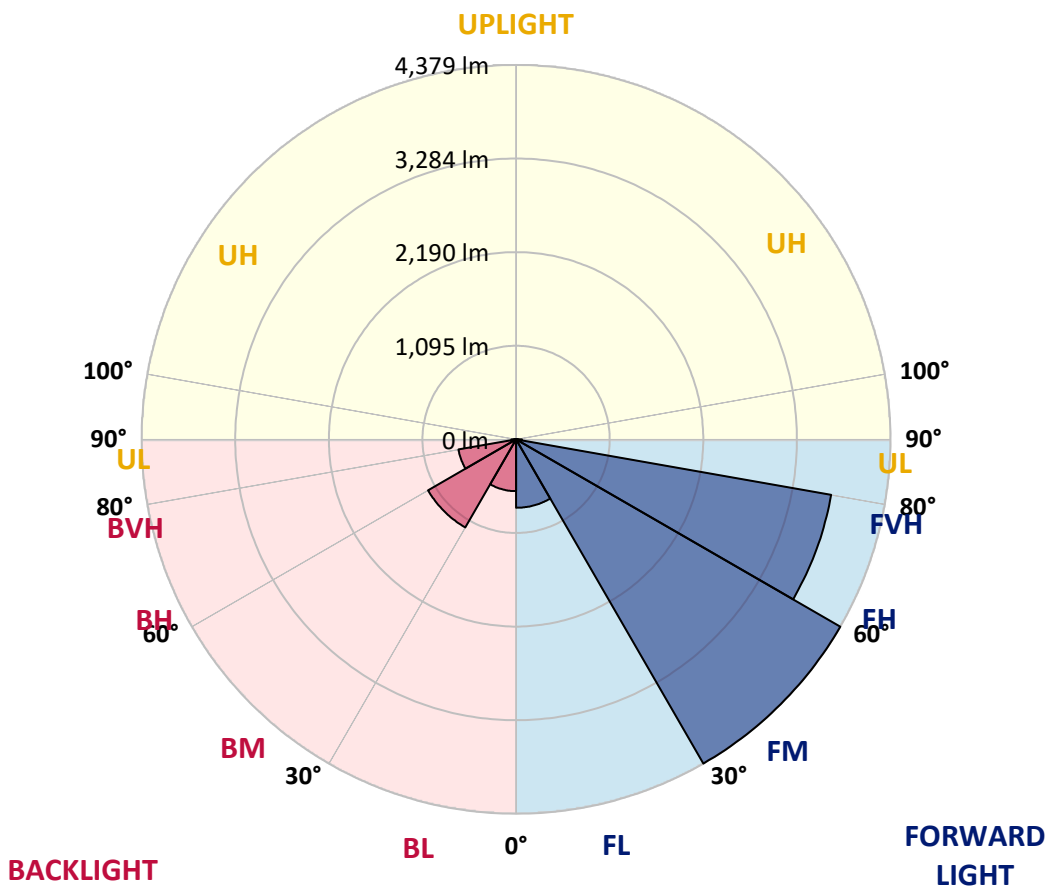
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	800.4	6.9			
FM (30°-60°)	4379.2	38.0			
FH (60°-80°)	3742.0	32.5			G2/5000
FVH (80°-90°)	68.5	0.6			G1/100
BL (0°-30°)	606.0	5.3	B2/1000		
BM (30°-60°)	1189.4	10.3	B2/2500		
BH (60°-80°)	683.8	5.9	B2/1000		G2/1000
BVH (80°-90°)	54.5	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1388.6	1388.6	1388.6	1388.6	1388.6	1388.6	1388.6	1388.6	1388.6	1388.6	1388.6
2.5°	1408.4	1406.7	1405.9	1410.8	1409.2	1408.4	1408.4	1407.5	1405.9	1399.3	1390.2
5°	1447.2	1443.9	1440.6	1444.7	1441.4	1438.1	1437.3	1435.6	1429.8	1419.9	1405.9
7.5°	1487.6	1484.3	1485.1	1487.6	1485.1	1483.5	1481.0	1479.4	1470.3	1454.6	1435.6
10°	1544.6	1544.6	1546.2	1548.7	1549.5	1547.1	1542.1	1539.6	1528.9	1509.1	1482.7
12.5°	1627.1	1625.5	1625.5	1623.8	1626.3	1623.8	1618.9	1614.7	1601.5	1575.9	1538.0
15°	1736.1	1729.5	1723.7	1713.0	1709.7	1700.6	1702.3	1699.8	1687.4	1652.7	1604.8
17.5°	1852.5	1851.7	1842.6	1821.1	1799.7	1784.8	1788.1	1787.3	1780.7	1733.6	1672.5
20°	1954.9	1959.0	1950.7	1934.2	1905.3	1877.3	1875.6	1879.7	1871.5	1824.4	1739.4
22.5°	2069.6	2066.3	2058.1	2036.6	2015.1	1985.4	1975.5	1972.2	1968.9	1915.2	1807.9
25°	2178.6	2188.5	2177.8	2158.0	2124.9	2092.7	2084.5	2087.8	2078.7	2007.7	1881.4
27.5°	2316.5	2320.6	2314.0	2286.7	2258.7	2213.3	2197.6	2197.6	2194.3	2094.4	1939.2
30°	2463.4	2475.0	2463.4	2441.1	2412.2	2347.0	2313.2	2309.8	2299.9	2183.5	2006.9
32.5°	2611.2	2619.4	2611.2	2589.7	2556.7	2499.7	2451.0	2443.6	2430.4	2281.0	2076.2
35°	2742.4	2749.9	2748.2	2753.2	2725.9	2654.1	2624.4	2621.1	2586.4	2408.1	2170.3
37.5°	2886.1	2895.2	2882.8	2892.7	2881.9	2814.3	2805.2	2788.7	2739.1	2527.8	2269.4
40°	3049.5	3057.8	3038.0	3042.1	3029.7	2991.7	2945.5	2923.2	2849.8	2657.4	2425.4
42.5°	3224.5	3243.5	3252.6	3245.2	3216.3	3194.8	3113.9	3085.9	3024.8	2891.0	2682.2
45°	3478.0	3506.1	3519.3	3500.3	3487.9	3457.3	3358.3	3324.4	3292.2	3220.4	3040.4
47.5°	3751.2	3776.8	3818.9	3827.2	3837.1	3814.0	3674.5	3641.4	3647.2	3639.0	3481.3
50°	3969.2	3990.6	4085.6	4187.1	4271.3	4277.9	4099.6	4064.1	4095.5	4121.9	4012.1
52.5°	4127.7	4146.7	4272.1	4481.8	4672.5	4813.7	4621.4	4580.9	4606.5	4665.9	4615.6
55°	4256.5	4282.9	4414.1	4736.1	5121.6	5344.5	5221.5	5170.3	5159.6	5233.1	5262.0
57.5°	4324.2	4332.4	4516.5	4935.1	5451.0	5865.4	5919.1	5861.3	5758.9	5799.4	5949.6
60°	4169.8	4183.8	4435.6	4986.2	5711.1	6382.2	6651.3	6603.5	6385.5	6407.8	6573.7
62.5°	3743.0	3762.8	4065.8	4742.7	5732.5	6727.3	7327.5	7296.9	7004.7	6884.1	6933.7
65°	3002.5	3009.1	3322.8	4140.1	5305.7	6770.2	7798.8	7791.4	7437.3	7154.9	6942.8
67.5°	1712.2	1700.6	2120.0	2952.9	4378.6	6212.2	7829.4	7873.1	7577.6	7110.3	6364.9
70°	742.2	743.8	937.0	1457.1	2834.1	5020.9	7272.1	7347.3	7171.4	6368.2	5063.8
72.5°	343.4	348.4	431.8	630.7	1210.2	3114.7	5929.8	5997.5	5846.4	5096.9	3684.4
75°	242.7	246.8	288.1	361.6	556.4	1213.5	3966.7	4108.7	4182.2	3812.3	2427.9
77.5°	184.1	189.9	210.5	251.0	343.4	430.1	1897.9	2236.4	2664.0	2371.8	1250.7
80°	117.2	117.2	139.5	167.6	209.7	223.7	548.2	649.7	1303.5	977.4	491.2
82.5°	79.3	81.7	94.9	106.5	120.5	127.1	235.3	251.0	376.4	332.7	202.3
85°	42.1	43.8	49.5	48.7	57.8	50.4	99.1	98.2	137.9	151.1	76.8
87.5°	0.0	0.0	0.8	0.8	1.7	2.5	10.7	11.6	28.9	46.2	25.6
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°	1388.6	1388.6	1388.6	1388.6	1388.6	1388.6	1388.6	1388.6	1388.6	1388.6	1388.6
2.5°	1395.2	1385.2	1390.2	1388.6	1393.5	1393.5	1384.4	1381.9	1382.8	1372.9	1369.6
5°	1407.5	1396.0	1398.5	1395.2	1400.1	1404.2	1400.1	1400.1	1405.1	1397.6	1393.5
7.5°	1435.6	1422.4	1422.4	1418.3	1424.0	1427.4	1424.0	1429.0	1438.1	1430.7	1426.5
10°	1480.2	1464.5	1465.3	1460.4	1462.8	1461.2	1448.0	1443.9	1446.3	1439.7	1436.4
12.5°	1538.0	1516.5	1516.5	1506.6	1500.8	1483.5	1456.2	1446.3	1448.0	1442.2	1439.7
15°	1593.3	1573.5	1569.3	1549.5	1523.1	1490.9	1466.2	1459.5	1461.2	1455.4	1451.3
17.5°	1658.5	1632.9	1618.1	1581.7	1533.0	1500.0	1475.2	1459.5	1446.3	1433.1	1429.8
20°	1718.8	1686.6	1659.3	1603.2	1543.8	1498.3	1452.1	1413.3	1381.1	1363.8	1359.7
22.5°	1780.7	1739.4	1691.5	1618.1	1542.9	1468.6	1383.6	1325.0	1277.1	1251.5	1256.5
25°	1839.3	1787.3	1722.1	1632.1	1516.5	1402.6	1287.0	1199.5	1145.0	1125.2	1119.4
27.5°	1888.0	1823.6	1750.1	1625.5	1462.0	1307.6	1154.9	1057.5	1004.7	982.4	976.6
30°	1942.5	1869.8	1790.6	1594.9	1376.2	1174.7	1005.5	926.3	888.3	866.8	867.6
32.5°	2005.2	1929.3	1847.5	1536.3	1266.4	1031.1	882.5	828.0	797.5	776.0	772.7
35°	2089.4	2014.3	1885.5	1448.0	1126.9	899.0	798.3	753.7	715.7	687.7	681.9
37.5°	2193.4	2142.3	1889.7	1329.9	977.4	808.2	738.0	690.1	643.9	606.8	602.6
40°	2371.8	2313.2	1855.8	1182.2	850.3	749.6	687.7	632.4	578.7	537.4	531.6
42.5°	2626.0	2505.5	1783.2	1015.4	754.5	703.4	639.8	569.6	515.1	486.2	482.1
45°	2949.6	2720.1	1674.2	858.6	683.5	658.0	589.4	516.0	487.1	466.4	462.3
47.5°	3345.9	2970.3	1548.7	736.4	628.2	616.7	538.2	497.8	472.2	454.9	450.7
50°	3819.8	3288.9	1445.5	640.6	578.7	568.8	521.7	487.1	466.4	452.4	449.1
52.5°	4360.5	3643.1	1395.2	572.1	535.8	525.9	516.0	484.6	467.3	456.5	452.4
55°	4921.8	4016.2	1348.1	519.3	499.4	505.2	516.8	492.8	479.6	465.6	461.5
57.5°	5464.2	4366.3	1232.5	478.0	473.0	495.3	520.9	501.1	485.4	471.4	466.4
60°	5838.2	4557.8	1036.9	445.0	453.2	482.9	510.2	488.7	468.9	463.1	460.6
62.5°	5938.9	4534.7	804.9	411.1	429.3	455.7	482.1	468.1	447.4	456.5	457.3
65°	5703.6	4287.0	604.3	378.1	397.9	420.2	453.2	447.4	440.0	464.8	465.6
67.5°	5037.4	3678.6	460.6	349.2	365.7	393.0	444.1	468.1	469.7	501.1	497.8
70°	3811.5	2748.2	360.8	322.0	340.9	393.0	473.0	483.8	464.0	492.8	486.2
72.5°	2635.1	1813.7	307.1	298.0	310.4	374.8	472.2	472.2	450.7	450.7	438.4
75°	1637.0	1066.6	267.5	267.5	267.5	327.7	459.0	435.1	397.1	379.7	369.8
77.5°	808.2	518.4	224.5	232.8	223.7	274.1	374.8	355.8	332.7	314.5	307.9
80°	345.1	259.2	181.6	190.7	180.0	206.4	297.2	293.1	270.8	246.8	239.4
82.5°	158.5	133.7	145.3	149.4	131.3	155.2	217.1	217.1	204.7	171.7	159.3
85°	67.7	71.0	100.7	100.7	82.6	87.5	116.4	110.6	99.1	80.9	74.3
87.5°	23.1	34.7	51.2	44.6	17.3	7.4	4.1	1.7	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)