

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: P640251

Luminaire Tested: GWS-SA5D-740-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-740-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29805.1 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

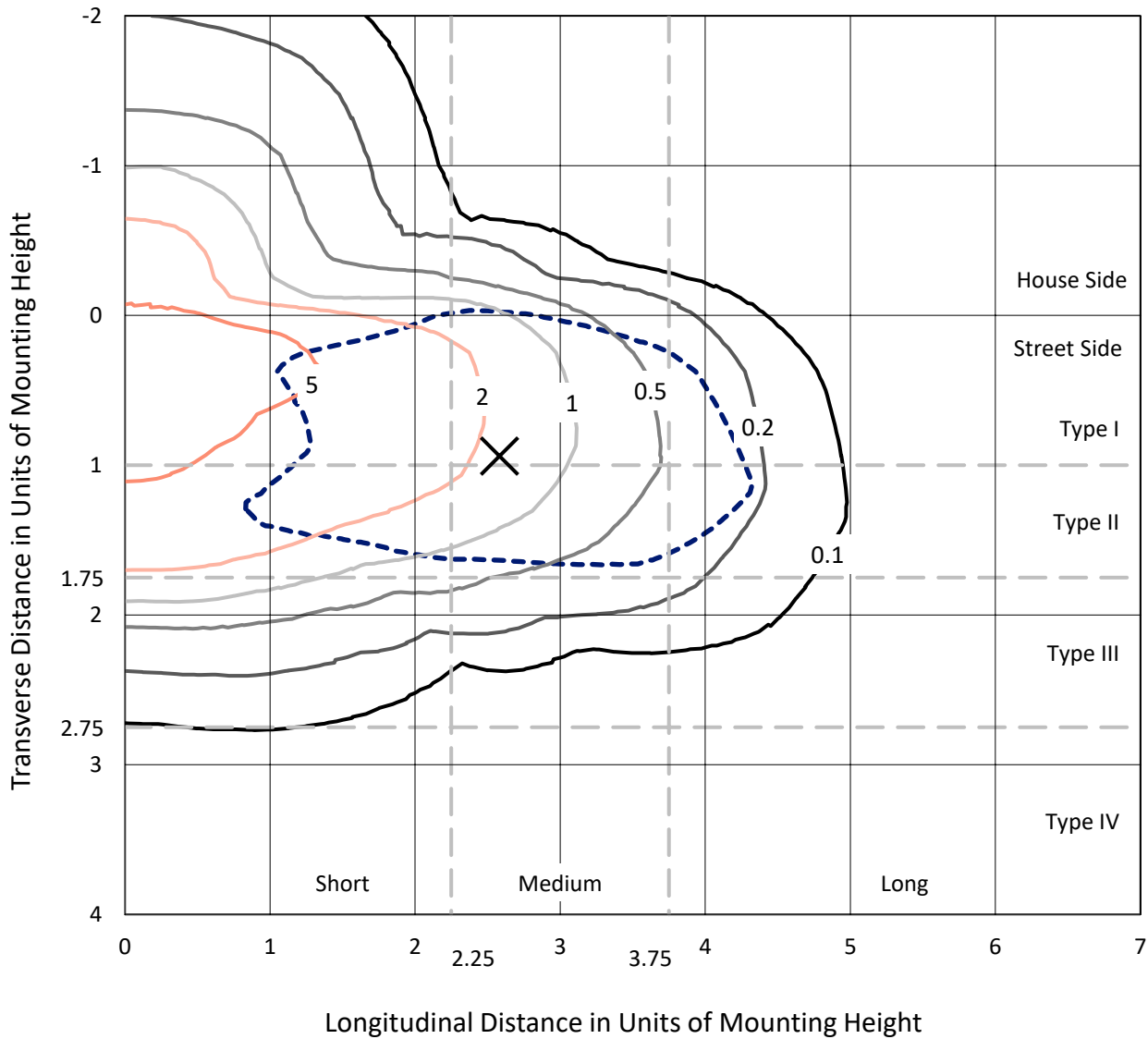
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

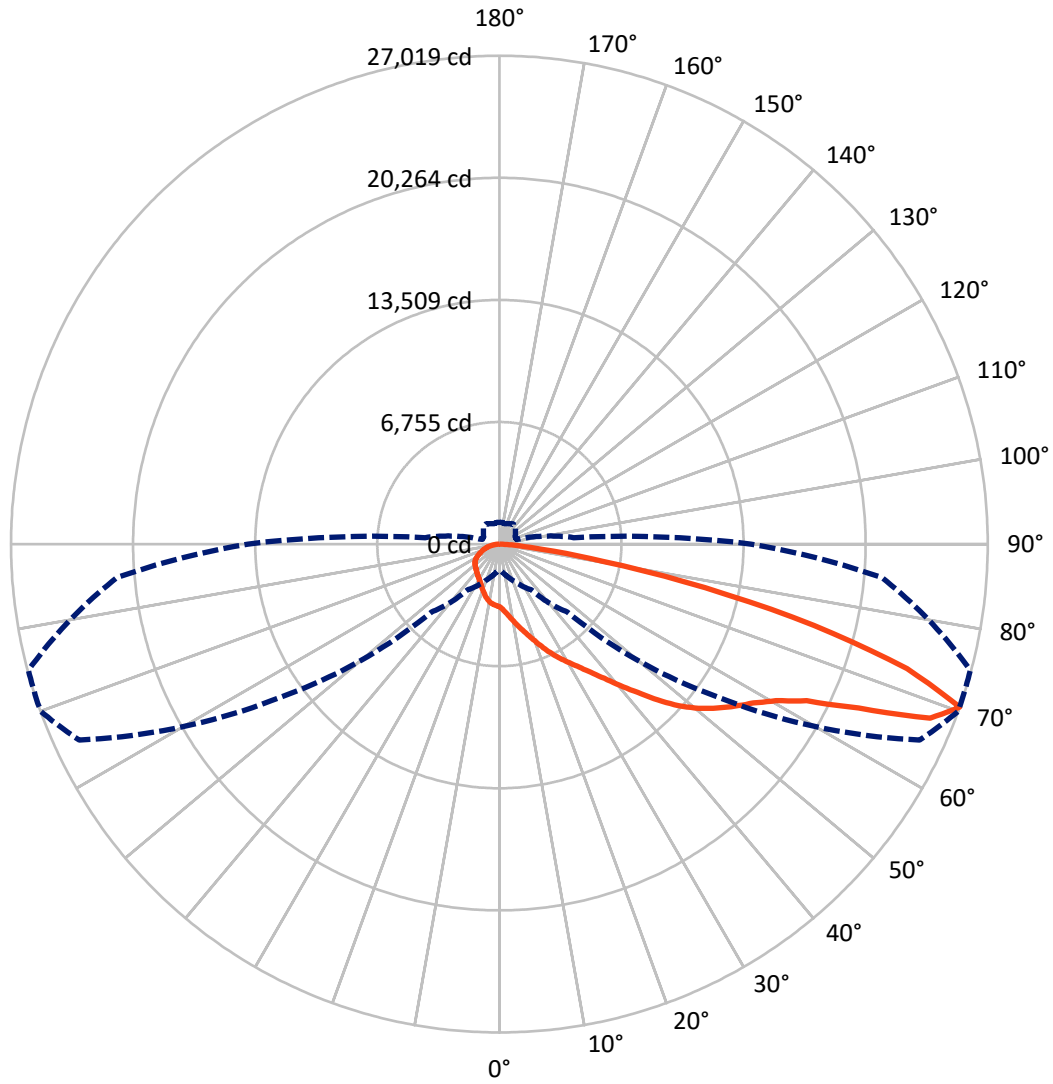
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5341.1	0.0	5341.1
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	24464.0	0.0	24464.0
	% Fixture	82.1	0.0	82.1
Total	Lumens	29805.1	0.0	29805.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.3	1.2
10°-20°	1149.2	3.9
20°-30°	2035.9	6.8
30°-40°	3064.1	10.3
40°-50°	4635.6	15.6
50°-60°	6640.8	22.3
60°-70°	7340.6	24.6
70°-80°	4142.5	13.9
80°-90°	443.1	1.5
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°	29805.1	100.0
0°-180°	29805.1	100.0

Coefficient of Utilization



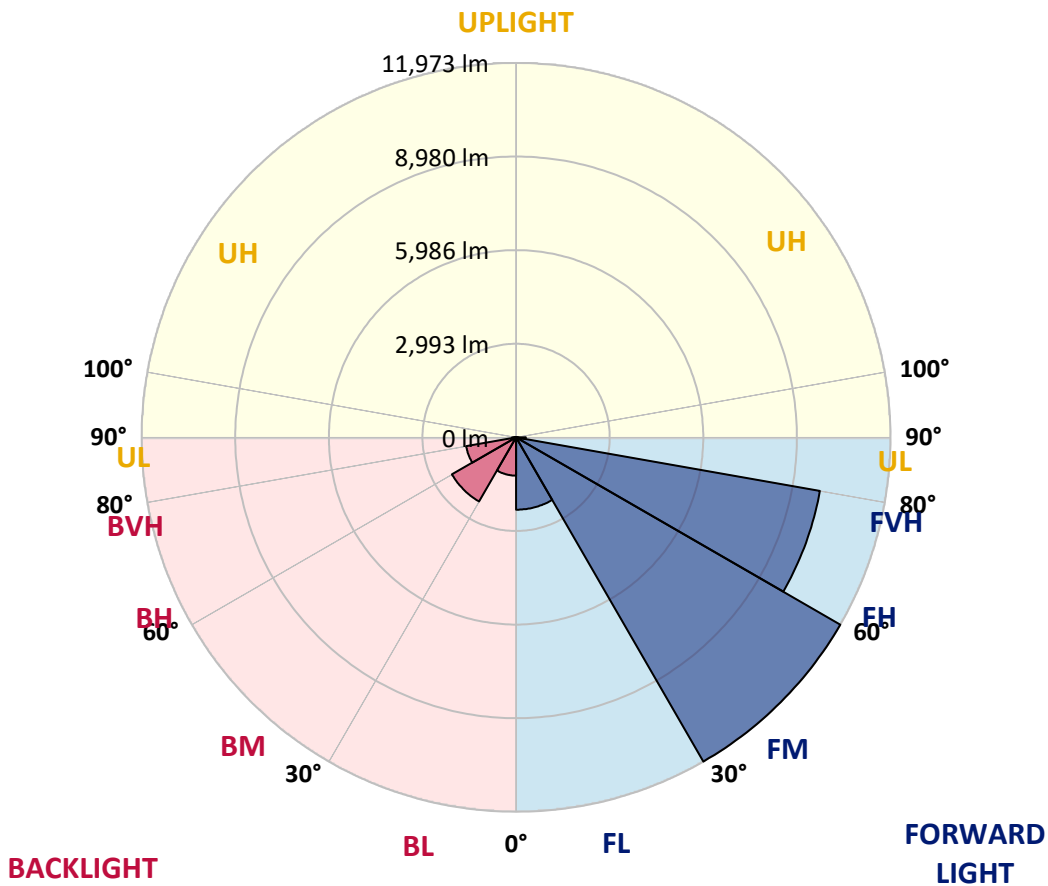
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2313.8	7.8			
FM (30°-60°)	11972.7	40.2			
FH (60°-80°)	9864.2	33.1			G4/12000
FVH (80°-90°)	313.2	1.1			G3/500
BL (0°-30°)	1224.7	4.1	B3/2500		
BM (30°-60°)	2367.8	7.9	B2/2500		
BH (60°-80°)	1618.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	129.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9
2.5°	3850.6	3844.2	3848.5	3844.2	3820.5	3762.3	3714.9	3654.6	3613.7	3590.0	3534.0
5°	4302.9	4296.4	4281.3	4259.8	4216.7	4137.0	4018.6	3887.2	3807.5	3747.2	3628.8
7.5°	4628.1	4628.1	4625.9	4600.1	4569.9	4485.9	4345.9	4173.7	4057.4	3954.0	3760.2
10°	4793.9	4804.7	4819.7	4856.3	4849.9	4804.7	4673.3	4488.1	4341.6	4221.0	3932.5
12.5°	4884.3	4890.8	4916.6	4992.0	5069.5	5080.3	5002.8	4809.0	4649.6	4488.1	4124.1
15°	5000.6	5002.8	5037.2	5127.7	5241.8	5356.0	5336.6	5142.8	4979.1	4800.3	4337.3
17.5°	5091.1	5106.2	5168.6	5274.1	5416.3	5573.5	5668.2	5547.6	5345.2	5140.6	4569.9
20°	5123.4	5134.2	5216.0	5377.5	5571.3	5793.2	6004.2	5971.9	5767.3	5526.1	4832.7
22.5°	5239.7	5239.7	5300.0	5435.7	5663.9	5987.0	6329.4	6413.4	6232.5	5950.4	5114.8
25°	5496.0	5487.3	5515.3	5571.3	5743.6	6142.0	6650.3	6902.3	6699.8	6383.2	5396.9
27.5°	5847.0	5842.7	5840.5	5849.1	5907.3	6277.7	6921.6	7358.8	7156.4	6798.9	5648.9
30°	6228.2	6215.3	6243.3	6217.4	6204.5	6439.2	7152.1	7768.0	7610.8	7210.2	5857.8
32.5°	6747.2	6723.5	6717.0	6633.1	6581.4	6691.2	7337.3	8233.2	8108.3	7653.9	6092.5
35°	7432.0	7410.5	7300.7	7167.1	7014.2	7065.9	7567.7	8687.6	8696.2	8209.5	6400.5
37.5°	8123.3	8127.6	8041.5	7727.1	7569.9	7539.7	7918.7	9241.0	9426.3	8872.8	6798.9
40°	8698.3	8724.2	8724.2	8392.5	8157.8	8129.8	8411.9	9897.9	10266.2	9686.8	7302.8
42.5°	9135.5	9159.2	9234.6	8995.5	8747.9	8844.8	9010.6	10556.9	11218.0	10692.6	7940.3
45°	9615.8	9635.2	9676.1	9538.2	9394.0	9652.4	9689.0	11345.1	12307.8	11821.0	8681.1
47.5°	10253.2	10236.0	10240.3	10139.1	10027.1	10444.9	10436.3	12008.4	13360.9	13057.2	9484.4
50°	11045.8	11078.1	11047.9	10847.6	10716.3	11097.4	11147.0	12742.8	14286.9	14280.4	10294.2
52.5°	11808.1	11821.0	11980.4	11989.0	11719.8	11640.1	11769.4	13483.6	15068.7	15400.3	11071.6
55°	11846.9	11896.4	12374.5	12719.1	13154.1	12514.5	12398.2	14190.0	15824.6	16496.5	11879.2
57.5°	11022.1	11101.7	11913.7	12656.6	13867.0	14015.6	13475.0	15103.1	16580.5	17575.4	12813.9
60°	9260.4	9426.3	10528.9	11666.0	13546.1	15094.5	15678.1	16343.6	17573.3	18678.1	13948.8
62.5°	5913.8	5978.4	7524.6	9428.4	12101.0	14989.0	18077.2	18529.5	19085.1	20114.5	15697.5
65°	2961.2	3167.9	4074.6	5627.3	8726.3	13208.0	19289.7	22533.0	21852.5	22573.9	18531.6
67.5°	2009.3	2076.1	2534.8	3381.1	5116.9	9357.3	18538.1	25905.5	25705.2	25823.7	21553.1
70°	1481.7	1524.7	1886.5	2394.8	3094.7	5312.9	14758.5	25651.4	27018.9	26975.8	21236.5
72.5°	1081.1	1102.6	1376.1	1828.4	2293.6	2748.0	9012.8	20721.8	23586.1	24828.7	18572.5
75°	786.1	811.9	956.2	1367.5	1783.2	1714.3	4449.3	14967.4	17986.8	20377.3	15131.1
77.5°	585.8	618.1	684.8	857.1	1249.1	1227.5	1923.2	9719.1	11633.7	13309.2	9191.5
80°	422.1	428.6	467.3	549.2	792.5	719.3	915.3	5067.4	5810.4	6366.0	3603.0
82.5°	256.3	262.7	312.3	338.1	491.0	452.3	475.9	1641.0	2351.7	2496.0	1346.0
85°	75.4	79.7	142.1	155.1	204.6	193.8	191.7	667.6	796.8	1018.6	529.8
87.5°	0.0	0.0	0.0	0.0	2.2	12.9	23.7	118.4	178.7	247.7	129.2
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°	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9
2.5°	3512.5	3463.0	3437.1	3391.9	3359.6	3327.3	3295.0	3264.8	3251.9	3232.5	3236.8
5°	3575.0	3497.4	3419.9	3331.6	3256.2	3193.8	3137.8	3088.2	3066.7	3047.3	3055.9
7.5°	3669.7	3553.4	3404.8	3243.3	3124.9	3038.7	2980.6	2946.1	2935.3	2920.3	2920.3
10°	3790.3	3615.9	3355.3	3124.9	2982.7	2913.8	2888.0	2885.8	2896.6	2898.7	2894.4
12.5°	3923.8	3676.2	3282.1	2984.9	2864.3	2842.7	2862.1	2898.7	2935.3	2954.7	2950.4
15°	4061.7	3714.9	3157.2	2851.4	2778.1	2806.1	2868.6	2941.8	3012.9	3049.5	3047.3
17.5°	4190.9	3723.6	2995.6	2722.1	2702.8	2773.8	2881.5	2995.6	3092.6	3144.2	3146.4
20°	4335.2	3708.5	2829.8	2605.8	2627.4	2743.7	2885.8	3023.6	3137.8	3189.5	3202.4
22.5°	4466.5	3656.8	2668.3	2496.0	2562.8	2707.1	2851.4	2980.6	3081.8	3131.3	3148.5
25°	4585.0	3557.7	2491.7	2403.4	2513.2	2655.4	2765.2	2855.7	2926.7	2956.9	2980.6
27.5°	4649.6	3409.1	2358.2	2330.2	2465.9	2582.2	2642.5	2670.4	2694.1	2685.5	2702.8
30°	4662.5	3223.9	2241.9	2272.0	2394.8	2480.9	2493.9	2465.9	2424.9	2358.2	2373.3
32.5°	4649.6	3010.7	2145.0	2209.6	2315.1	2366.8	2349.6	2276.3	2177.3	2073.9	2080.4
35°	4653.9	2795.4	2065.3	2140.7	2222.5	2250.5	2207.4	2106.2	2000.7	1905.9	1901.6
37.5°	4701.3	2614.5	1998.5	2073.9	2132.1	2136.4	2089.0	1983.5	1929.6	1858.5	1849.9
40°	4832.7	2480.9	1938.2	2007.1	2043.8	2041.6	1987.8	1912.4	1949.0	1925.3	1918.8
42.5°	5048.0	2399.1	1888.7	1936.1	1961.9	1966.2	1923.2	1875.8	1955.5	1925.3	1914.5
45°	5394.7	2394.8	1854.2	1865.0	1905.9	1936.1	1905.9	1852.1	1882.2	1735.8	1707.8
47.5°	5806.1	2468.0	1828.4	1802.6	1873.6	1927.5	1880.1	1793.9	1731.5	1598.0	1578.6
50°	6301.4	2616.6	1804.7	1735.8	1826.2	1895.2	1847.8	1729.3	1634.6	1563.5	1552.7
52.5°	6889.3	2812.6	1774.6	1660.4	1755.2	1877.9	1847.8	1722.9	1598.0	1533.4	1522.6
55°	7505.3	3038.7	1740.1	1570.0	1675.5	1882.2	1862.9	1677.6	1570.0	1535.5	1526.9
57.5°	8269.8	3310.1	1677.6	1464.4	1604.4	1843.5	1802.6	1651.8	1550.6	1522.6	1514.0
60°	9262.6	3712.8	1559.2	1356.8	1522.6	1774.6	1748.7	1608.7	1498.9	1475.2	1468.7
62.5°	10834.7	4395.5	1414.9	1253.4	1425.7	1630.3	1669.0	1526.9	1434.3	1432.1	1430.0
65°	13397.5	5216.0	1244.8	1160.8	1324.5	1511.8	1563.5	1442.9	1367.5	1391.2	1389.1
67.5°	15193.6	5287.1	1104.8	1063.9	1206.0	1382.6	1458.0	1356.8	1274.9	1320.1	1318.0
70°	13916.5	4124.1	984.2	962.7	1078.9	1242.6	1343.8	1249.1	1167.2	1210.3	1201.7
72.5°	11737.1	3161.5	870.0	857.1	949.7	1096.2	1197.4	1141.4	1055.3	1055.3	1035.9
75°	9432.7	2608.0	749.4	743.0	805.4	947.6	1061.7	967.0	887.3	883.0	870.0
77.5°	5409.8	1709.9	628.8	624.5	643.9	792.5	824.8	805.4	745.1	717.1	708.5
80°	2155.7	889.4	495.3	467.3	486.7	581.5	650.4	618.1	566.4	531.9	512.6
82.5°	835.6	445.8	348.9	305.8	333.8	419.9	471.6	460.9	426.4	348.9	327.3
85°	340.3	217.5	208.9	176.6	193.8	226.1	271.4	234.7	193.8	137.8	131.4
87.5°	90.5	79.7	77.5	47.4	36.6	10.8	2.2	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)