

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: P640263

Luminaire Tested: GWS-SA5D-740-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-740-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30539.5 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

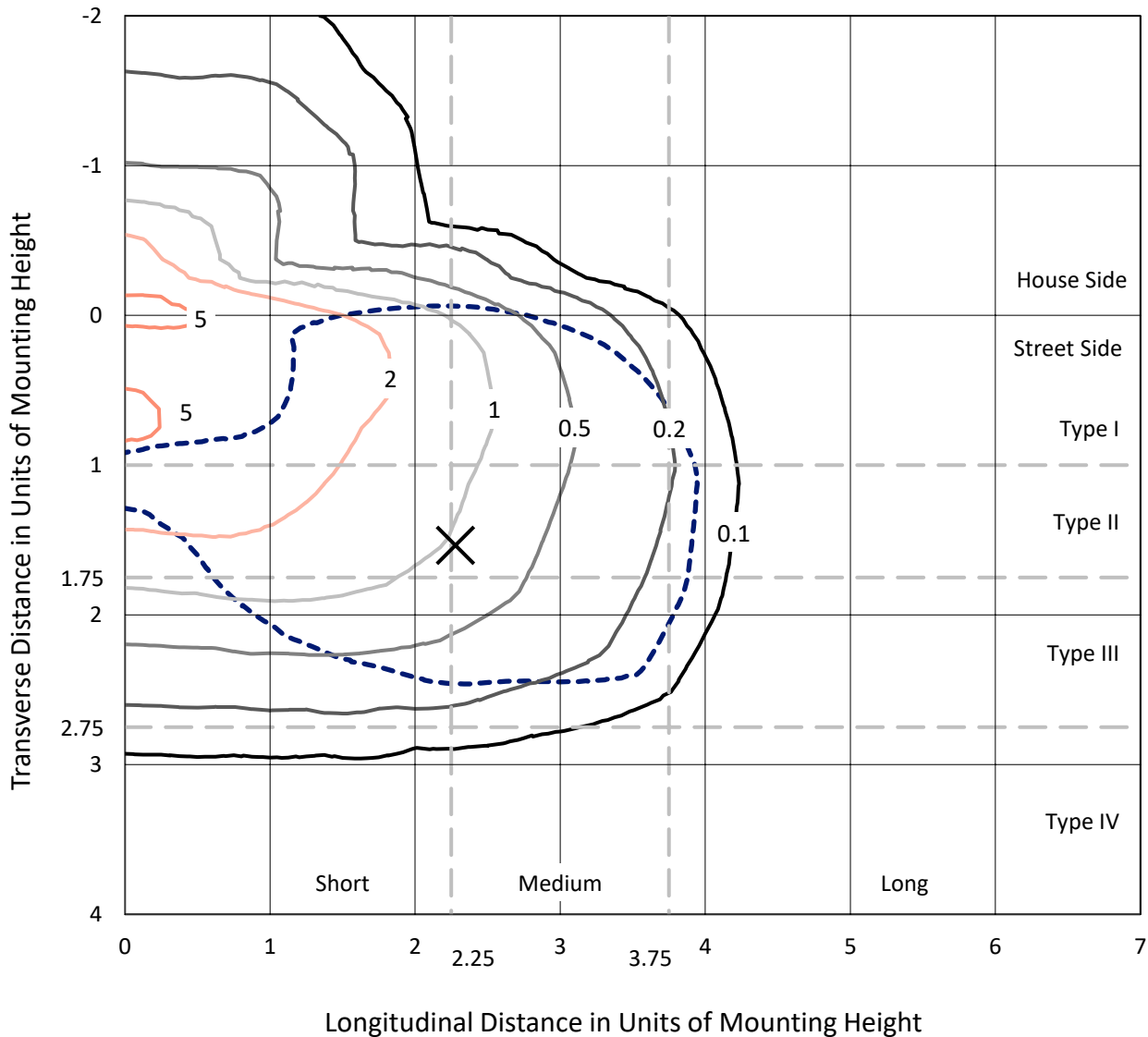
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

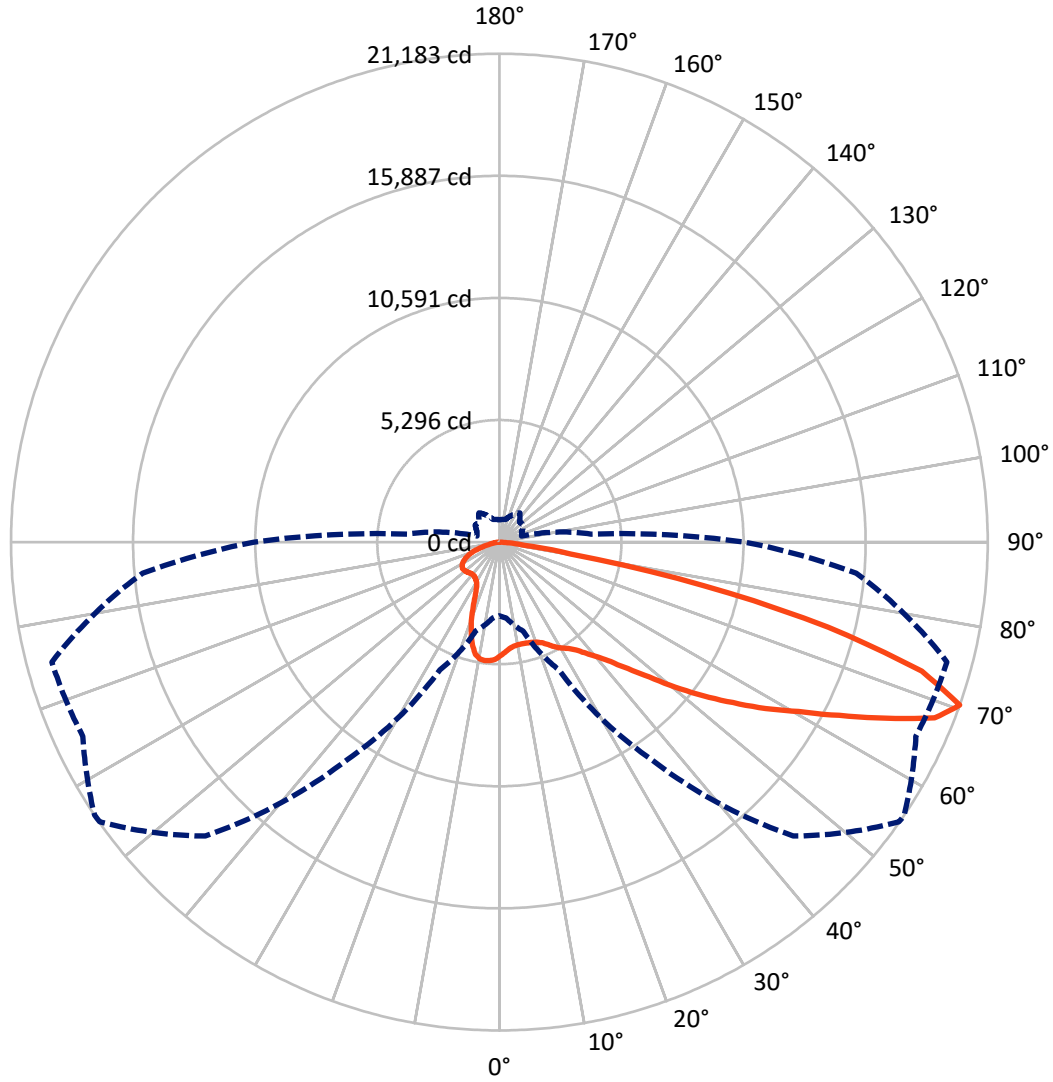
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5871.3	0.0	5871.3
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	24668.2	0.0	24668.2
	% Fixture	80.8	0.0	80.8
Total	Lumens	30539.5	0.0	30539.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.2	1.5
10°-20°	1236.0	4.0
20°-30°	2043.5	6.7
30°-40°	3055.3	10.0
40°-50°	4546.7	14.9
50°-60°	6464.0	21.2
60°-70°	8005.9	26.2
70°-80°	4420.6	14.5
80°-90°	311.3	1.0
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°	30539.5	100.0
0°-180°	30539.5	100.0

Coefficient of Utilization



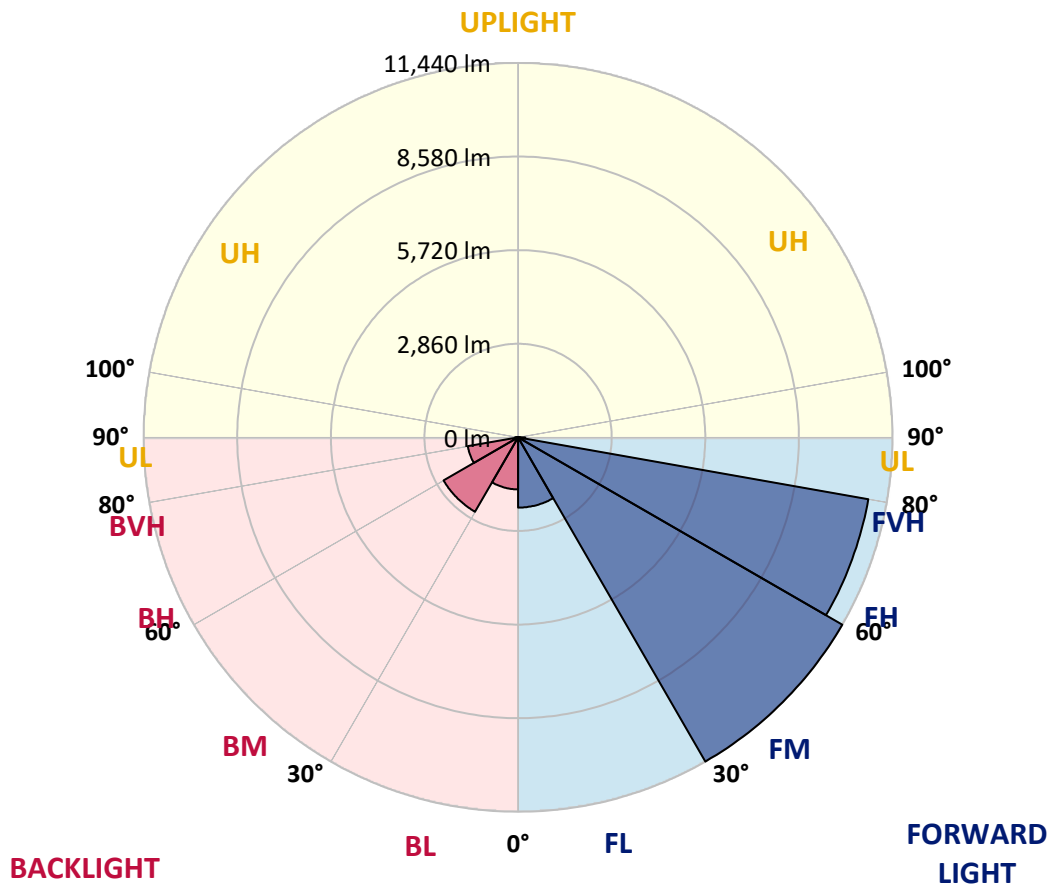
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2146.3	7.0			
FM (30°-60°)	11439.6	37.5			
FH (60°-80°)	10866.0	35.6			G4/12000
FVH (80°-90°)	216.3	0.7			G2/225
BL (0°-30°)	1589.4	5.2	B3/2500		
BM (30°-60°)	2626.3	8.6	B3/5000		
BH (60°-80°)	1560.6	5.1	B3/2500		G3/2500
BVH (80°-90°)	95.0	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-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5
2.5°	4613.0	4587.1	4617.3	4632.4	4671.1	4727.1	4776.6	4778.8	4804.6	4867.1	4927.4
5°	4404.1	4391.1	4399.8	4445.0	4485.9	4557.0	4632.4	4638.8	4712.0	4834.8	4955.4
7.5°	4242.6	4225.3	4257.6	4315.8	4367.5	4447.1	4546.2	4554.8	4658.2	4843.4	5028.6
10°	4010.0	3997.0	4057.3	4134.9	4246.9	4378.2	4509.6	4520.4	4656.0	4899.4	5157.8
12.5°	3908.7	3908.7	3934.6	4007.8	4130.6	4305.0	4503.1	4520.4	4690.5	4985.5	5323.7
15°	4066.0	4076.7	4055.2	4050.9	4100.4	4266.2	4511.8	4537.6	4755.1	5073.8	5487.3
17.5°	4382.5	4393.3	4337.3	4249.0	4199.5	4302.9	4544.1	4572.1	4824.0	5170.7	5663.9
20°	4826.2	4839.1	4716.3	4580.7	4410.5	4408.4	4606.5	4632.4	4912.3	5276.3	5851.3
22.5°	5345.2	5353.8	5198.7	4983.4	4722.8	4604.4	4714.2	4740.0	5026.5	5422.7	6053.7
25°	5946.0	5971.9	5784.5	5472.2	5119.1	4873.6	4892.9	4923.1	5231.0	5618.7	6292.8
27.5°	6587.8	6620.1	6404.7	6060.2	5573.5	5170.7	5123.4	5149.2	5448.6	5739.3	6419.8
30°	7244.6	7268.3	7053.0	6658.9	6062.3	5506.7	5317.2	5332.3	5543.3	5797.4	6549.0
32.5°	7974.7	7955.3	7748.6	7294.2	6626.6	5909.4	5498.1	5493.8	5648.8	5913.7	6734.2
35°	8659.5	8687.5	8467.9	7966.1	7246.8	6406.9	5769.4	5752.2	5872.8	6103.2	6994.8
37.5°	9488.7	9480.1	9217.3	8674.6	7869.2	6882.8	6150.6	6120.5	6163.5	6398.3	7358.8
40°	10080.9	10141.2	9971.1	9465.0	8597.1	7468.6	6596.4	6529.7	6540.4	6762.2	7845.5
42.5°	10565.5	10621.5	10638.7	10315.6	9430.5	8192.2	7152.0	7085.3	7091.7	7406.2	8444.2
45°	10938.0	11013.4	11256.8	11162.0	10369.5	9027.8	7903.6	7834.7	7839.0	8187.9	9167.8
47.5°	11090.9	11172.8	11665.9	11892.1	11366.6	10027.1	8838.3	8737.1	8752.1	9137.6	9994.8
50°	11041.4	11151.2	11818.8	12454.2	12202.2	11043.6	9956.0	9884.9	9826.8	10386.7	10892.8
52.5°	10615.0	10735.6	11803.8	12811.6	12884.9	12004.1	11110.3	11069.4	11056.5	11713.3	11896.4
55°	9359.5	9561.9	11284.8	12906.4	13419.0	12908.6	12361.6	12292.6	12359.4	13134.7	12910.7
57.5°	8663.9	8814.6	10268.3	12800.9	13856.1	13770.0	13610.6	13617.1	13692.5	14678.8	14140.4
60°	8267.6	8444.2	9704.0	12512.3	14276.1	14816.6	14917.8	14917.8	15053.5	16343.5	15389.5
62.5°	7742.1	7920.9	9176.4	11956.7	14663.7	16048.5	16561.0	16554.6	16608.4	18128.8	16610.6
65°	6676.1	6841.9	8116.8	11080.2	14853.2	17405.2	18428.2	18408.8	18301.1	19718.2	17418.2
67.5°	4847.7	5004.9	6217.4	9413.3	14170.6	18499.3	20351.3	20359.9	19716.0	20719.6	17461.2
70°	3195.9	3303.6	3997.0	6114.0	11523.8	18027.6	21156.8	21182.6	19933.5	20095.1	15540.2
72.5°	1994.2	2069.6	2496.0	3646.0	6809.6	14269.6	19089.3	19160.4	17932.9	17659.4	12768.6
75°	1324.5	1376.1	1660.4	2125.6	3150.7	7722.7	14510.8	14739.1	14373.0	13843.2	8896.4
77.5°	796.8	839.9	1057.4	1350.3	1395.5	3017.2	8470.0	9060.1	9111.8	7227.4	3725.7
80°	364.0	413.5	583.6	771.0	743.0	1050.9	2987.0	3124.8	3686.9	2295.7	1175.9
82.5°	215.4	236.9	387.6	383.3	316.6	510.4	1074.6	1102.6	936.8	839.9	501.8
85°	86.1	101.2	163.7	144.3	116.3	165.8	404.9	424.3	407.0	366.1	185.2
87.5°	0.0	0.0	0.0	0.0	2.2	4.3	36.6	38.8	56.0	101.2	56.0
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°	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5
2.5°	4966.2	4953.2	5017.8	5067.4	5088.9	5110.4	5091.1	5084.6	5084.6	5041.5	5020.0
5°	5020.0	5026.5	5114.8	5155.7	5155.7	5138.4	5086.8	5050.1	5037.2	4981.2	4966.2
7.5°	5121.2	5149.2	5231.0	5228.9	5168.6	5073.8	4944.6	4845.6	4755.1	4716.3	4692.7
10°	5287.0	5323.7	5379.6	5289.2	5121.2	4871.4	4597.9	4382.5	4253.3	4149.9	4149.9
12.5°	5476.6	5511.0	5500.2	5291.3	4944.6	4477.3	4083.2	3835.5	3654.6	3559.9	3559.9
15°	5666.1	5694.1	5577.8	5192.3	4576.4	3954.0	3523.3	3226.1	3068.9	2980.6	2980.6
17.5°	5857.7	5855.6	5610.1	4964.0	4096.1	3374.7	2952.6	2722.1	2668.3	2653.2	2651.1
20°	6042.9	5993.4	5569.2	4582.8	3538.3	2791.0	2524.0	2539.1	2618.8	2653.2	2657.5
22.5°	6251.8	6129.1	5448.6	4096.1	2905.2	2386.2	2403.4	2528.3	2644.6	2696.3	2702.7
25°	6465.0	6245.4	5246.1	3525.4	2375.4	2237.6	2371.1	2511.1	2642.4	2709.2	2715.7
27.5°	6551.2	6245.4	4901.5	2864.3	2093.3	2175.1	2321.6	2457.2	2595.1	2672.6	2687.7
30°	6622.3	6191.5	4419.1	2267.7	1977.0	2114.8	2241.9	2366.8	2502.5	2597.2	2614.4
32.5°	6721.3	6144.2	3835.5	1905.9	1923.1	2056.7	2145.0	2250.5	2373.2	2435.7	2429.2
35°	6837.6	6070.9	3131.3	1733.6	1877.9	2007.1	2069.6	2132.0	2076.1	2073.9	2080.4
37.5°	7003.4	6006.3	2517.5	1656.1	1847.8	1972.7	2024.4	1890.8	1813.3	1781.0	1768.1
40°	7242.5	5980.5	1985.6	1610.9	1843.5	1970.5	1933.9	1727.2	1621.6	1509.7	1507.5
42.5°	7544.0	5961.1	1641.0	1589.3	1858.5	2020.1	1809.0	1619.5	1402.0	1352.4	1348.1
45°	7931.6	5931.0	1468.7	1585.0	1895.2	2058.8	1796.1	1470.9	1322.3	1300.8	1300.8
47.5°	8399.0	5883.6	1391.2	1585.0	1936.1	2041.6	1757.3	1438.6	1285.7	1309.4	1324.5
50°	8935.2	5823.3	1350.3	1580.7	1977.0	2041.6	1675.5	1432.1	1277.1	1399.8	1449.4
52.5°	9508.1	5754.4	1322.3	1563.5	2005.0	2043.7	1679.8	1453.7	1285.7	1421.4	1462.3
55°	10141.2	5743.6	1283.5	1526.9	2013.6	1987.8	1690.6	1501.0	1298.6	1287.8	1290.0
57.5°	10940.2	5872.8	1255.5	1473.0	1979.1	1873.6	1712.1	1535.5	1283.5	1285.7	1300.8
60°	11775.8	6116.2	1279.2	1421.4	1908.1	1765.9	1727.2	1518.3	1210.3	1175.9	1180.2
62.5°	12486.5	6301.4	1298.6	1397.7	1804.7	1671.2	1712.1	1479.5	1169.4	1160.8	1180.2
65°	12783.7	6148.5	1251.2	1348.1	1653.9	1554.9	1679.8	1430.0	1134.9	1102.6	1104.8
67.5°	12454.2	5431.3	1158.6	1238.3	1483.8	1406.3	1628.1	1365.4	1087.6	1048.8	1040.2
70°	10638.7	3990.6	999.3	1063.9	1277.1	1231.8	1548.4	1281.4	1012.2	984.2	964.8
72.5°	8573.4	2825.5	829.1	846.4	1001.4	1038.0	1410.6	1175.9	926.0	846.4	818.4
75°	5967.6	1774.6	691.3	674.1	723.6	792.5	1100.5	975.6	799.0	715.0	689.1
77.5°	2567.1	911.0	540.5	531.9	482.4	549.2	844.2	814.1	669.8	572.9	557.8
80°	859.3	527.6	389.8	374.7	320.9	385.5	594.4	650.4	525.5	424.3	398.4
82.5°	430.7	305.8	247.7	224.0	215.4	243.4	351.0	404.9	364.0	292.9	247.7
85°	211.1	174.4	135.7	133.5	112.0	105.5	146.4	172.3	163.7	120.6	114.1
87.5°	77.5	68.9	43.1	34.5	21.5	15.1	8.6	8.6	6.5	6.5	6.5
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)