

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: P637843

Luminaire Tested: GWS-SA4D-750-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637843
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-SA4D-750-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25465.9 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

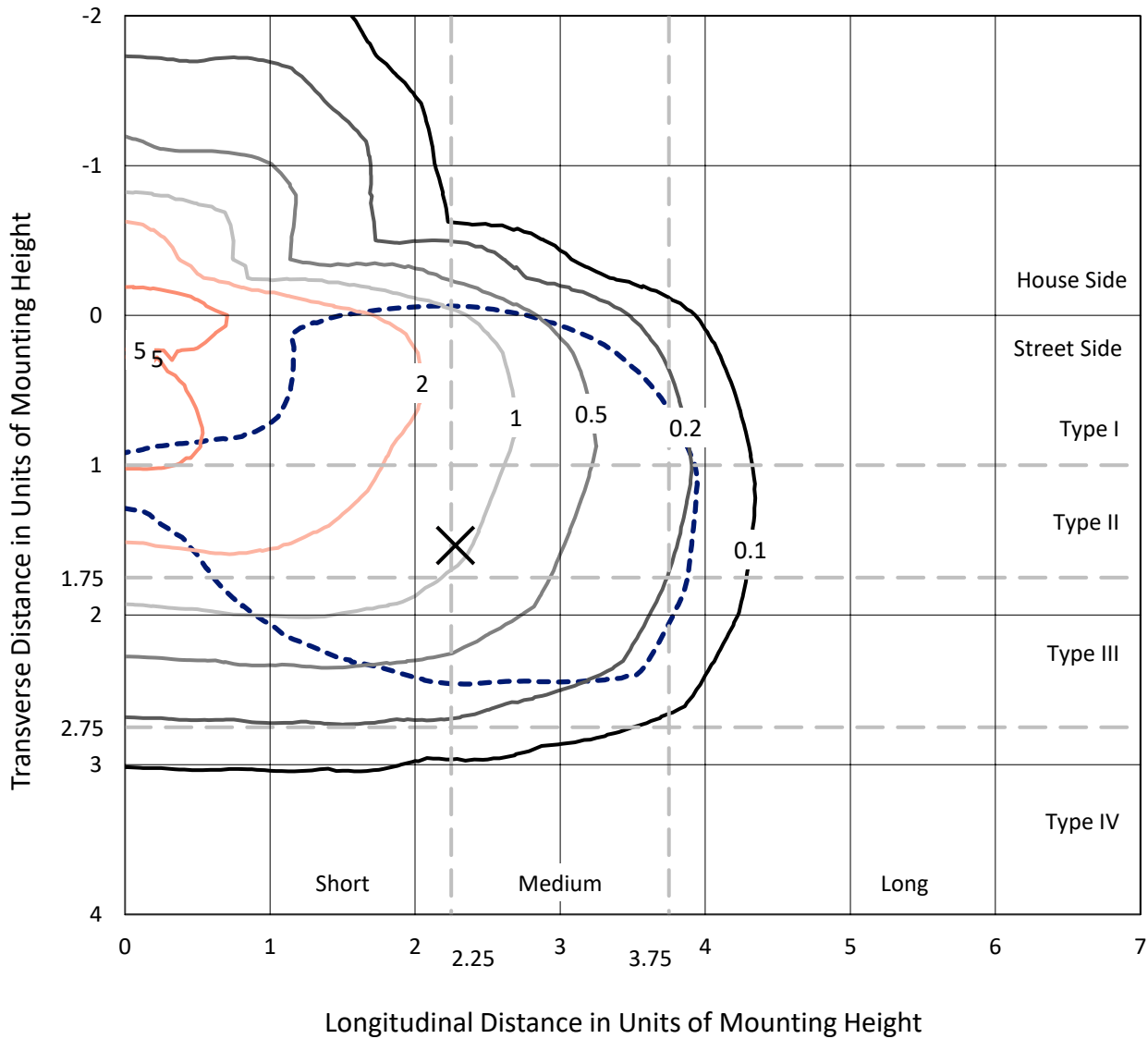
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

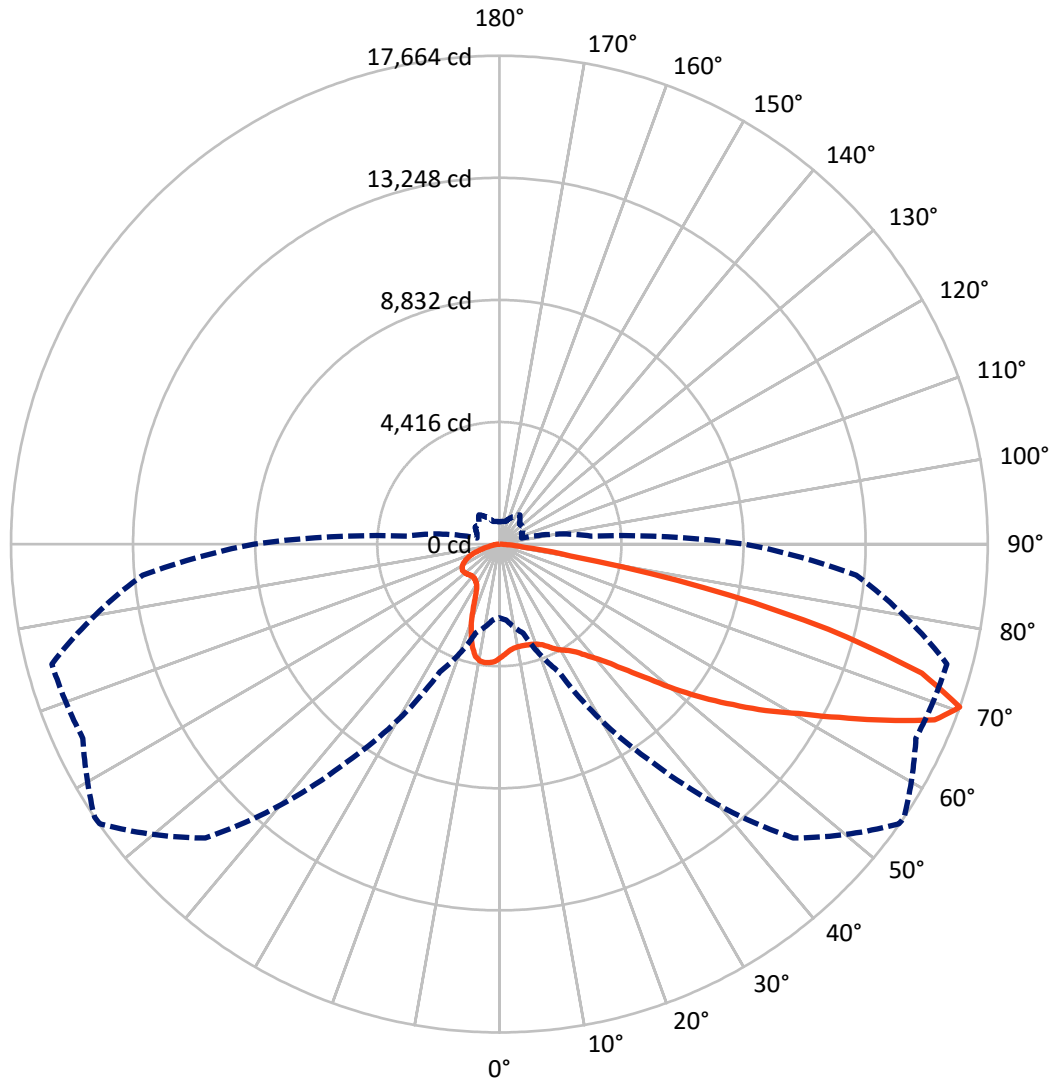
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	4895.9	0.0	4895.9
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	20570.0	0.0	20570.0
	% Fixture	80.8	0.0	80.8
Total	Lumens	25465.9	0.0	25465.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.4	1.5
10°-20°	1030.7	4.0
20°-30°	1704.0	6.7
30°-40°	2547.7	10.0
40°-50°	3791.3	14.9
50°-60°	5390.1	21.2
60°-70°	6675.9	26.2
70°-80°	3686.2	14.5
80°-90°	259.6	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°	25465.9	100.0
0°-180°	25465.9	100.0

Coefficient of Utilization



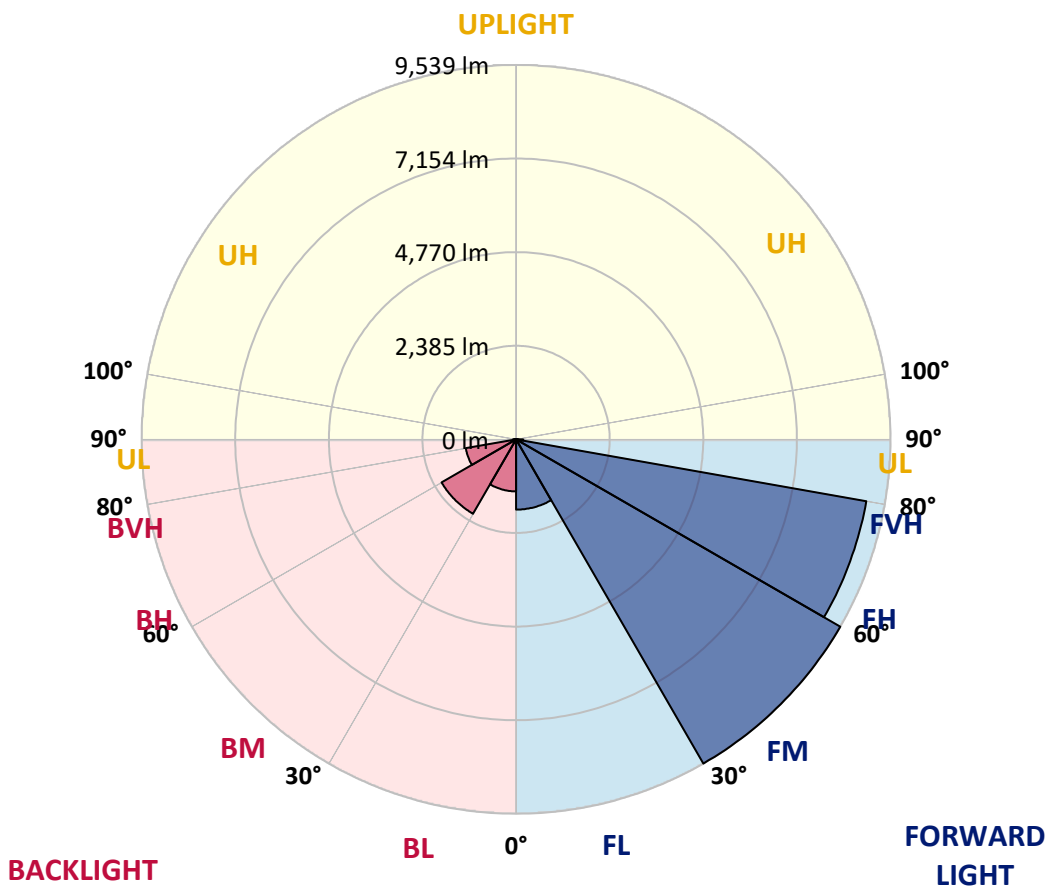
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1789.7	7.0			
FM (30°-60°)	9539.1	37.5			
FH (60°-80°)	9060.8	35.6			G4/12000
FVH (80°-90°)	180.4	0.7			G2/225
BL (0°-30°)	1325.3	5.2	B3/2500		
BM (30°-60°)	2190.0	8.6	B2/2500		
BH (60°-80°)	1301.3	5.1	B3/2500		G3/2500
BVH (80°-90°)	79.2	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°	4110.6	4110.6	4110.6	4110.6	4110.6	4110.6	4110.6	4110.6	4110.6	4110.6	4110.6
2.5°	3846.6	3825.1	3850.2	3862.8	3895.1	3941.8	3983.1	3984.9	4006.4	4058.5	4108.8
5°	3672.4	3661.6	3668.8	3706.5	3740.7	3799.9	3862.8	3868.2	3929.2	4031.6	4132.1
7.5°	3537.7	3523.4	3550.3	3598.8	3641.9	3708.3	3790.9	3798.1	3884.3	4038.8	4193.2
10°	3343.8	3333.0	3383.3	3447.9	3541.3	3650.9	3760.4	3769.4	3882.5	4085.4	4300.9
12.5°	3259.4	3259.4	3280.9	3342.0	3444.3	3589.8	3755.0	3769.4	3911.3	4157.3	4439.2
15°	3390.5	3399.5	3381.5	3377.9	3419.2	3557.5	3762.2	3783.8	3965.1	4230.9	4575.7
17.5°	3654.5	3663.4	3616.7	3543.1	3501.8	3588.0	3789.1	3812.5	4022.6	4311.7	4723.0
20°	4024.4	4035.2	3932.8	3819.7	3677.8	3676.0	3841.2	3862.8	4096.2	4399.7	4879.2
22.5°	4457.2	4464.4	4335.1	4155.5	3938.2	3839.4	3931.0	3952.6	4191.4	4521.8	5048.0
25°	4958.2	4979.8	4823.5	4563.1	4268.6	4063.9	4080.1	4105.2	4362.0	4685.2	5247.3
27.5°	5493.4	5520.3	5340.7	5053.4	4647.5	4311.7	4272.2	4293.8	4543.4	4785.8	5353.3
30°	6041.1	6060.8	5881.2	5552.6	5055.2	4591.9	4433.8	4446.4	4622.4	4834.3	5461.0
32.5°	6649.9	6633.7	6461.3	6082.4	5525.7	4927.7	4584.7	4581.1	4710.4	4931.3	5615.5
35°	7220.9	7244.3	7061.1	6642.7	6042.9	5342.5	4811.0	4796.6	4897.1	5089.3	5832.8
37.5°	7912.3	7905.1	7686.0	7233.5	6561.9	5739.4	5128.8	5103.7	5139.6	5335.3	6136.3
40°	8406.1	8456.4	8314.6	7892.5	7168.8	6227.8	5500.5	5444.9	5453.8	5638.8	6542.1
42.5°	8810.2	8856.9	8871.3	8601.9	7863.8	6831.2	5963.9	5908.2	5913.6	6175.8	7041.3
45°	9120.9	9183.7	9386.7	9307.6	8646.8	7528.0	6590.6	6533.1	6536.7	6827.6	7644.7
47.5°	9248.4	9316.6	9727.9	9916.4	9478.2	8361.2	7370.0	7285.6	7298.1	7619.6	8334.3
50°	9207.1	9298.7	9855.4	10385.1	10175.0	9208.9	8302.0	8242.7	8194.2	8661.1	9083.2
52.5°	8851.5	8952.1	9842.8	10683.2	10744.3	10009.8	9264.5	9230.4	9219.6	9767.4	9920.0
55°	7804.6	7973.4	9410.0	10762.2	11189.6	10764.0	10307.9	10250.4	10306.1	10952.6	10765.8
57.5°	7224.5	7350.2	8562.4	10674.2	11554.2	11482.4	11349.5	11354.8	11417.7	12240.2	11791.2
60°	6894.1	7041.3	8091.9	10433.6	11904.4	12355.1	12439.5	12439.5	12552.6	13628.3	12832.8
62.5°	6455.9	6605.0	7651.9	9970.3	12227.6	13382.3	13809.7	13804.3	13849.2	15117.1	13851.0
65°	5567.0	5705.3	6768.4	9239.4	12385.6	14513.7	15366.7	15350.5	15260.7	16442.4	14524.4
67.5°	4042.3	4173.4	5184.5	7849.4	11816.4	15425.9	16970.3	16977.5	16440.6	17277.4	14560.4
70°	2665.0	2754.8	3333.0	5098.3	9609.3	15032.6	17641.9	17663.5	16621.9	16756.6	12958.5
72.5°	1662.9	1725.8	2081.3	3040.3	5678.3	11899.0	15918.0	15977.2	14953.6	14725.6	10647.3
75°	1104.4	1147.5	1384.6	1772.5	2627.3	6439.7	12100.1	12290.5	11985.2	11543.4	7418.5
77.5°	664.4	700.4	881.7	1126.0	1163.7	2515.9	7062.9	7554.9	7598.0	6026.7	3106.7
80°	303.5	344.8	486.7	642.9	619.6	876.4	2490.8	2605.7	3074.4	1914.3	980.5
82.5°	179.6	197.5	323.2	319.7	264.0	425.6	896.1	919.4	781.2	700.4	418.4
85°	71.8	84.4	136.5	120.3	97.0	138.3	337.6	353.8	339.4	305.3	154.4
87.5°	0.0	0.0	0.0	0.0	1.8	3.6	30.5	32.3	46.7	84.4	46.7
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°	4110.6	4110.6	4110.6	4110.6	4110.6	4110.6	4110.6	4110.6	4110.6	4110.6	4110.6
2.5°	4141.1	4130.3	4184.2	4225.5	4243.5	4261.4	4245.3	4239.9	4239.9	4204.0	4186.0
5°	4186.0	4191.4	4265.0	4299.1	4299.1	4284.8	4241.7	4211.2	4200.4	4153.7	4141.1
7.5°	4270.4	4293.8	4362.0	4360.2	4309.9	4230.9	4123.2	4040.6	3965.1	3932.8	3913.0
10°	4408.7	4439.2	4485.9	4410.5	4270.4	4062.1	3834.0	3654.5	3546.7	3460.5	3460.5
12.5°	4566.7	4595.5	4586.5	4412.3	4123.2	3733.5	3404.8	3198.3	3047.5	2968.5	2968.5
15°	4724.8	4748.1	4651.1	4329.7	3816.1	3297.1	2937.9	2690.1	2559.0	2485.4	2485.4
17.5°	4884.6	4882.8	4678.1	4139.3	3415.6	2814.0	2462.0	2269.9	2225.0	2212.4	2210.6
20°	5039.0	4997.7	4643.9	3821.5	2950.5	2327.4	2104.7	2117.2	2183.7	2212.4	2216.0
22.5°	5213.2	5110.8	4543.4	3415.6	2422.5	1989.7	2004.1	2108.3	2205.2	2248.3	2253.7
25°	5391.0	5207.8	4374.6	2939.7	1980.8	1865.8	1977.2	2093.9	2203.4	2259.1	2264.5
27.5°	5462.8	5207.8	4087.2	2388.4	1745.5	1813.8	1935.9	2049.0	2163.9	2228.6	2241.2
30°	5522.1	5162.9	3685.0	1891.0	1648.5	1763.5	1869.4	1973.6	2086.7	2165.7	2180.1
32.5°	5604.7	5123.4	3198.3	1589.3	1603.7	1715.0	1788.6	1876.6	1979.0	2031.1	2025.7
35°	5701.7	5062.4	2611.1	1445.6	1565.9	1673.7	1725.8	1777.8	1731.2	1729.4	1734.7
37.5°	5839.9	5008.5	2099.3	1381.0	1540.8	1645.0	1688.1	1576.7	1512.1	1485.1	1474.4
40°	6039.3	4986.9	1655.7	1343.3	1537.2	1643.2	1612.6	1440.2	1352.2	1258.9	1257.1
42.5°	6290.7	4970.8	1368.4	1325.3	1549.8	1684.5	1508.5	1350.4	1169.1	1127.8	1124.2
45°	6613.9	4945.6	1224.7	1321.7	1580.3	1716.8	1497.7	1226.5	1102.6	1084.7	1084.7
47.5°	7003.6	4906.1	1160.1	1321.7	1614.4	1702.4	1465.4	1199.6	1072.1	1091.8	1104.4
50°	7450.8	4855.8	1126.0	1318.1	1648.5	1702.4	1397.1	1194.2	1064.9	1167.3	1208.6
52.5°	7928.5	4798.4	1102.6	1303.8	1671.9	1704.2	1400.7	1212.2	1072.1	1185.2	1219.3
55°	8456.4	4789.4	1070.3	1273.2	1679.1	1657.5	1409.7	1251.7	1082.9	1073.9	1075.7
57.5°	9122.7	4897.1	1047.0	1228.3	1650.3	1562.3	1427.7	1280.4	1070.3	1072.1	1084.7
60°	9819.4	5100.1	1066.7	1185.2	1591.1	1472.6	1440.2	1266.0	1009.2	980.5	984.1
62.5°	10412.1	5254.5	1082.9	1165.5	1504.9	1393.5	1427.7	1233.7	975.1	967.9	984.1
65°	10659.9	5127.0	1043.4	1124.2	1379.2	1296.6	1400.7	1192.4	946.4	919.4	921.2
67.5°	10385.1	4529.0	966.1	1032.6	1237.3	1172.7	1357.6	1138.5	906.9	874.6	867.4
70°	8871.3	3327.6	833.3	887.1	1064.9	1027.2	1291.2	1068.5	844.0	820.7	804.5
72.5°	7149.1	2356.1	691.4	705.7	835.0	865.6	1176.2	980.5	772.2	705.7	682.4
75°	4976.2	1479.7	576.5	562.1	603.4	660.9	917.7	813.5	666.2	596.2	574.7
77.5°	2140.6	759.6	450.7	443.6	402.3	457.9	704.0	678.8	558.5	477.7	465.1
80°	716.5	440.0	325.0	312.5	267.6	321.4	495.6	542.3	438.2	353.8	332.2
82.5°	359.2	255.0	206.5	186.8	179.6	202.9	292.7	337.6	303.5	244.2	206.5
85°	176.0	145.5	113.1	111.3	93.4	88.0	122.1	143.7	136.5	100.6	95.2
87.5°	64.6	57.5	35.9	28.7	18.0	12.6	7.2	7.2	5.4	5.4	5.4
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)