

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: P636045

Luminaire Tested: GWS-SA3F-722-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-722-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18340.1 lumens
Efficiency: N/A
Efficacy: 100.1 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

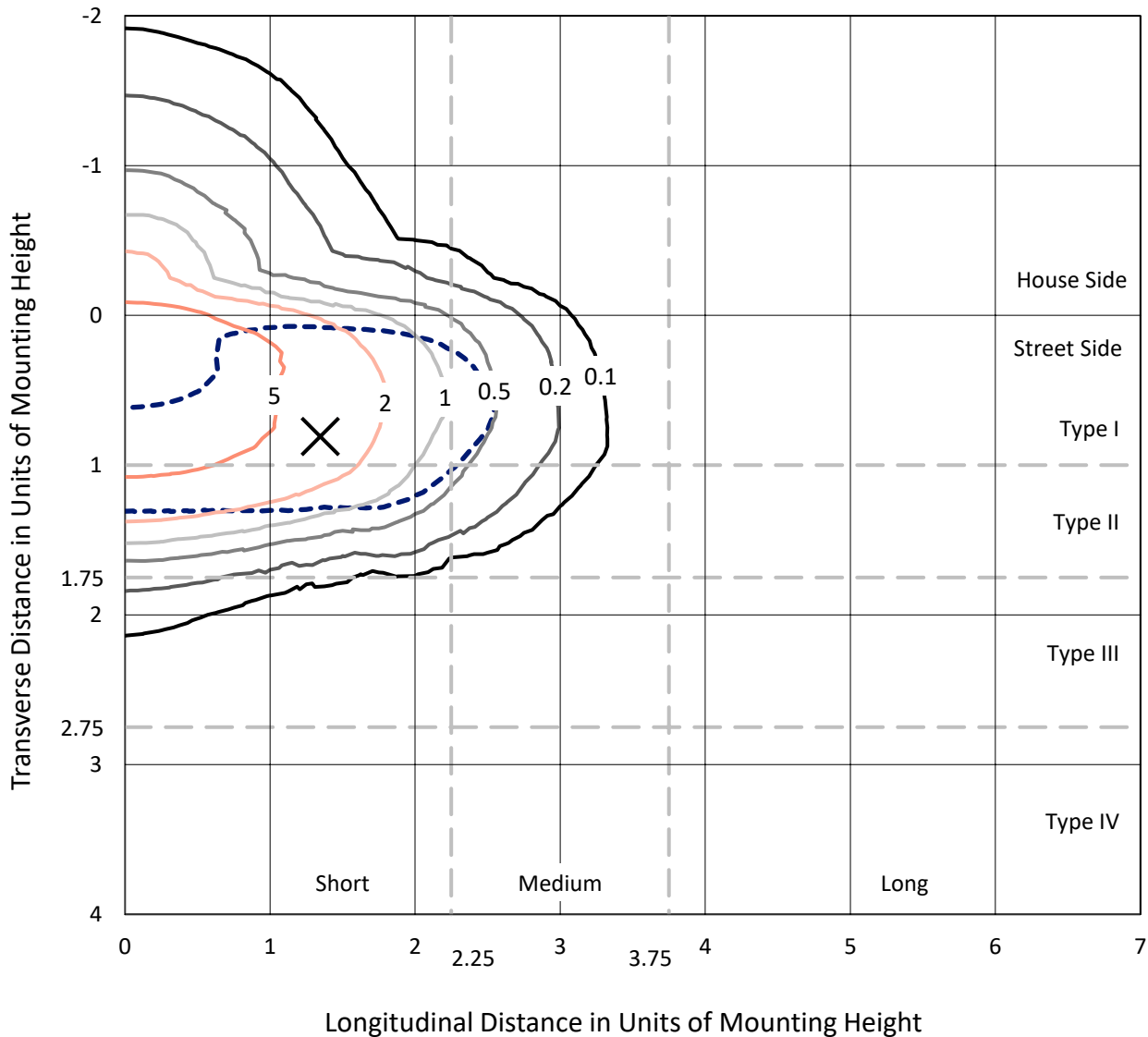
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

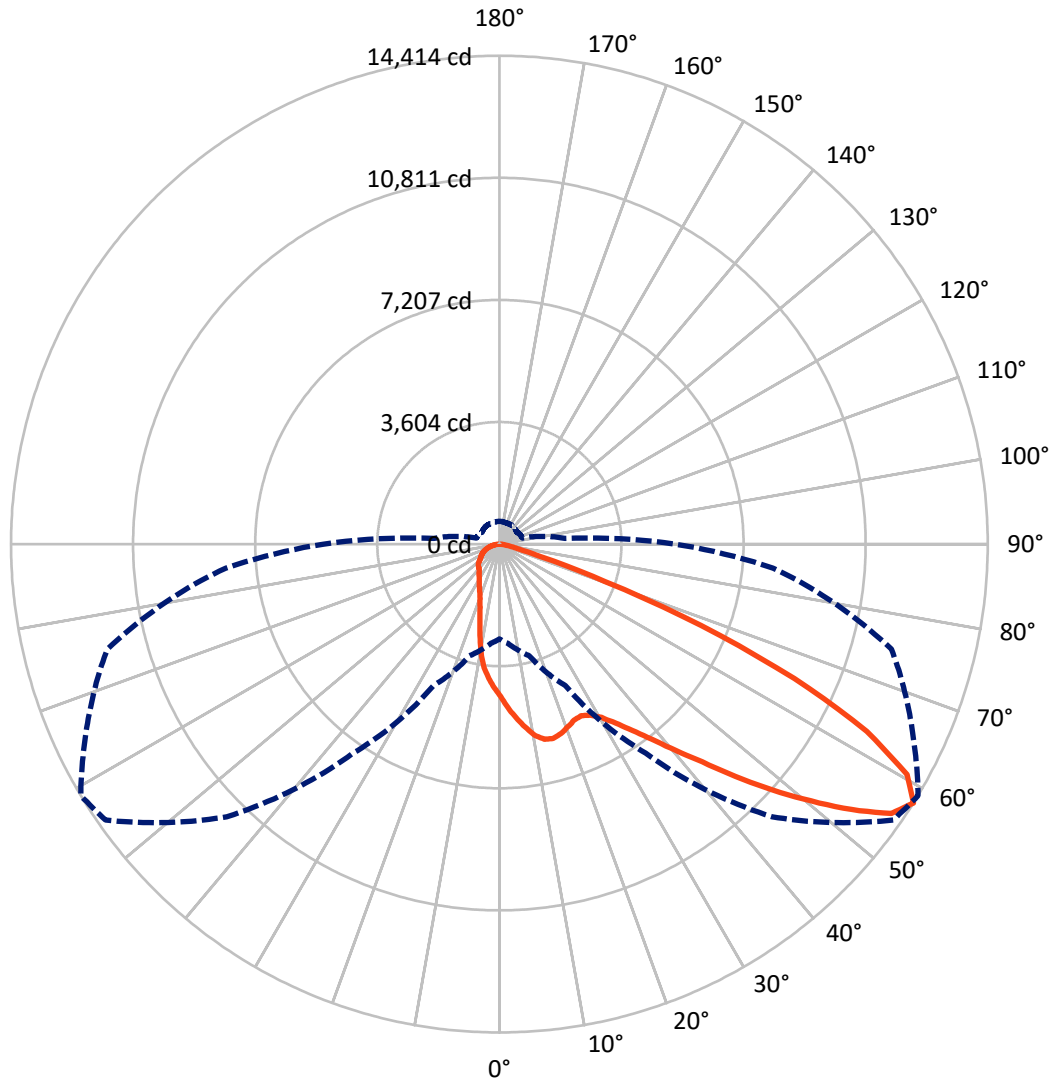
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2846.3	0.0	2846.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	15493.8	0.0	15493.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	18340.1	0.0	18340.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.0	2.3
10°-20°	1059.3	5.8
20°-30°	1717.1	9.4
30°-40°	2762.2	15.1
40°-50°	4289.5	23.4
50°-60°	4620.3	25.2
60°-70°	2681.5	14.6
70°-80°	700.0	3.8
80°-90°	92.2	0.5
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°	18340.1	100.0
0°-180°	18340.1	100.0

Coefficient of Utilization



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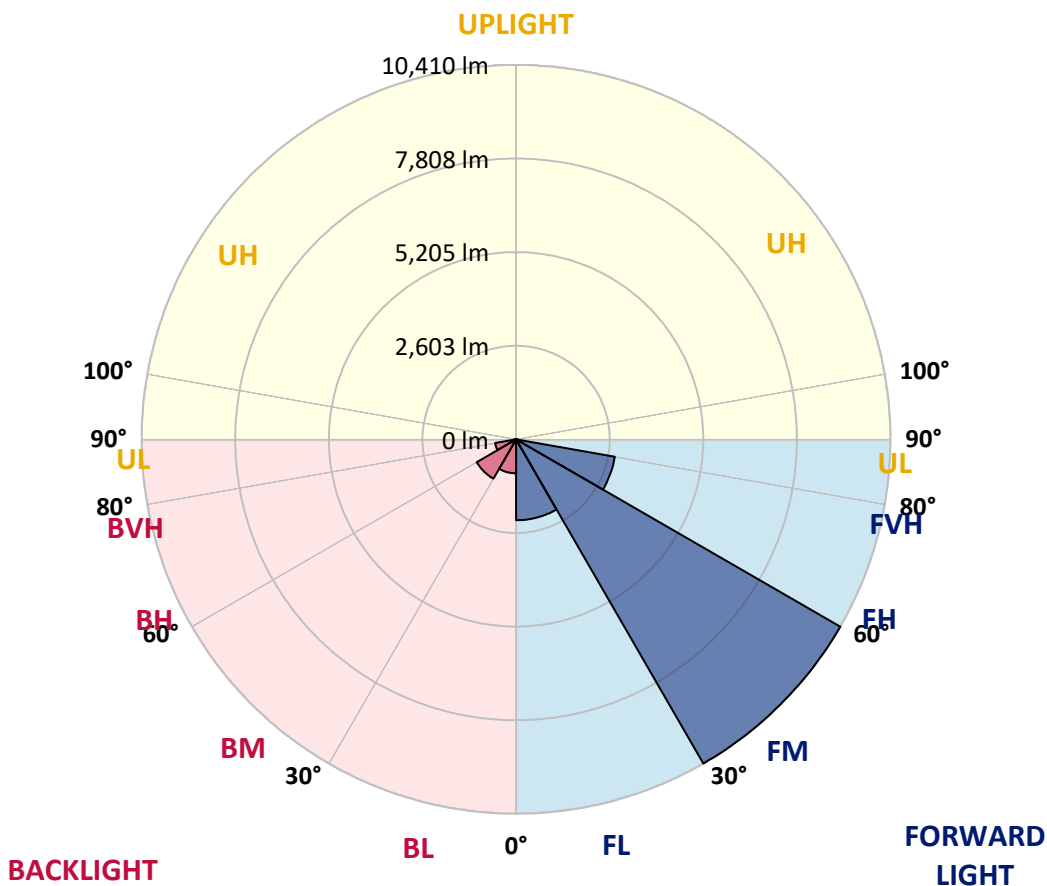
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2250.2	12.3			
FM (30°-60°)	10410.1	56.8			
FH (60°-80°)	2789.5	15.2			G2/5000
FVH (80°-90°)	44.2	0.2			G1/100
BL (0°-30°)	944.3	5.1	B2/1000		
BM (30°-60°)	1261.9	6.9	B2/2500		
BH (60°-80°)	592.0	3.2	B2/1000		G2/1000
BVH (80°-90°)	48.1	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°	59°	65°	75°	85°
0°	4502.1	4502.1	4502.1	4502.1	4502.1	4502.1	4502.1	4502.1	4502.1	4502.1	4502.1
2.5°	5106.4	5063.8	5093.5	5040.5	5018.6	4960.5	4885.6	4835.2	4757.8	4657.1	4569.3
5°	5613.8	5584.1	5590.5	5533.7	5483.4	5386.5	5232.9	5147.7	5016.0	4813.3	4624.8
7.5°	5598.3	5633.1	5652.5	5701.6	5715.8	5706.7	5568.6	5449.8	5305.2	5000.5	4716.5
10°	5018.6	5084.4	5143.8	5311.7	5515.7	5773.9	5806.2	5735.1	5589.2	5239.4	4826.2
12.5°	4387.2	4437.6	4490.5	4691.9	5004.4	5520.8	5870.7	5914.6	5856.5	5475.6	4950.1
15°	4077.4	4100.6	4150.9	4283.9	4533.1	5106.4	5758.4	5950.8	6055.3	5726.1	5089.6
17.5°	4064.4	4074.8	4099.3	4170.3	4343.3	4786.2	5555.7	5878.5	6211.6	5990.8	5252.3
20°	4331.7	4304.6	4289.1	4287.8	4373.0	4679.0	5359.4	5762.3	6285.2	6261.9	5426.6
22.5°	4702.3	4711.3	4677.7	4595.1	4584.8	4755.2	5261.3	5644.8	6307.1	6502.1	5588.0
25°	5227.7	5272.9	5173.5	5016.0	4938.5	4976.0	5322.0	5608.6	6304.5	6702.2	5688.7
27.5°	5841.0	5875.9	5775.2	5568.6	5408.5	5318.1	5502.7	5715.8	6326.5	6875.2	5749.3
30°	6539.5	6551.1	6413.0	6196.1	5962.4	5768.7	5803.6	5936.6	6438.8	7102.4	5820.4
32.5°	7392.9	7442.0	7232.8	6889.4	6562.8	6314.9	6207.7	6292.9	6681.5	7371.0	5930.1
35°	8476.2	8493.0	8227.0	7735.1	7272.9	6929.4	6704.8	6750.0	7050.8	7746.7	6095.4
37.5°	9497.5	9514.2	9231.5	8774.4	8113.4	7643.4	7318.1	7297.4	7523.3	8277.4	6365.2
40°	10145.6	10193.4	10066.8	9780.2	9148.9	8514.9	8073.4	8002.3	8143.1	8926.8	6740.9
42.5°	10494.2	10514.9	10512.3	10549.7	10174.0	9543.9	8925.5	8783.5	8877.7	9627.9	7120.5
45°	10496.8	10548.4	10686.6	11046.8	11063.6	10671.1	10002.3	9780.2	9693.7	10334.1	7516.9
47.5°	10026.8	10082.3	10461.9	11170.8	11693.7	11782.7	11292.1	10846.7	10482.6	10942.2	7842.2
50°	8604.0	8743.4	9466.5	10720.2	11817.6	12673.6	12522.6	11918.3	11183.7	11412.2	8046.2
52.5°	7368.4	7363.2	7808.7	9447.1	11299.9	13066.1	13713.0	13020.9	11877.0	11710.4	8097.9
55°	5395.6	5425.3	5881.0	7225.1	9918.4	12686.5	14367.6	14035.7	12672.3	11869.2	8077.2
57.5°	2797.9	2945.0	3412.4	4610.6	7536.3	11379.9	14193.3	14414.0	13480.6	11981.6	8104.3
60°	1413.8	1385.4	1553.2	2201.4	4366.6	8888.1	13119.0	13822.7	13626.5	12069.4	8121.1
62.5°	943.8	936.1	889.6	1020.0	1784.3	5263.9	11183.7	12170.1	12612.9	11862.8	7906.8
65°	817.3	801.8	716.6	711.4	866.3	2183.3	8197.3	9567.2	10424.5	10944.8	7394.2
67.5°	735.9	712.7	626.2	583.6	622.3	959.3	4619.6	6416.9	7697.6	9256.0	6271.0
70°	657.2	645.6	559.1	497.1	493.2	584.9	1701.7	3311.7	4710.0	6314.9	4584.8
72.5°	588.7	568.1	494.5	435.1	405.4	414.4	738.5	1275.6	2437.6	3939.2	2742.3
75°	510.0	494.5	429.9	370.6	334.4	303.4	450.6	590.0	1111.7	1872.1	1295.0
77.5°	393.8	383.5	339.6	294.4	273.7	225.9	273.7	371.8	513.9	788.9	674.0
80°	228.5	235.0	253.1	229.8	201.4	161.4	178.2	214.3	308.6	427.4	382.2
82.5°	114.9	122.7	164.0	133.0	120.1	94.3	105.9	126.5	161.4	236.3	149.8
85°	9.0	9.0	29.7	33.6	41.3	33.6	42.6	51.6	73.6	94.3	50.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	6.5	11.6	21.9	14.2
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°	4502.1	4502.1	4502.1	4502.1	4502.1	4502.1	4502.1	4502.1	4502.1	4502.1	4502.1
2.5°	4509.9	4444.0	4365.3	4300.7	4201.3	4148.4	4081.2	3998.6	3965.0	3949.5	3940.5
5°	4518.9	4402.7	4234.9	4079.9	3908.2	3772.6	3621.6	3464.1	3373.7	3351.7	3336.2
7.5°	4552.5	4389.8	4122.5	3866.9	3548.0	3252.3	2964.4	2679.1	2533.2	2477.7	2472.5
10°	4599.0	4384.6	4008.9	3584.1	3045.7	2578.4	2241.4	2018.0	1923.8	1892.8	1882.4
12.5°	4657.1	4380.8	3859.2	3191.6	2466.0	2024.5	1832.1	1795.9	1808.9	1806.3	1806.3
15°	4730.7	4385.9	3678.4	2747.5	1994.8	1757.2	1761.1	1803.7	1843.7	1850.2	1850.2
17.5°	4810.7	4380.8	3416.3	2302.1	1712.0	1693.9	1753.3	1812.7	1848.9	1854.0	1854.0
20°	4897.2	4356.2	3085.8	1882.4	1588.1	1653.9	1718.5	1765.0	1786.9	1792.1	1792.1
22.5°	4948.9	4286.5	2726.8	1593.2	1509.3	1590.7	1633.3	1681.0	1683.6	1642.3	1641.0
25°	4941.1	4156.1	2317.6	1407.3	1425.4	1496.4	1550.6	1517.1	1475.7	1452.5	1448.6
27.5°	4892.0	3959.9	1900.5	1266.6	1326.0	1406.0	1389.2	1360.8	1350.5	1324.7	1322.1
30°	4830.1	3718.4	1526.1	1156.8	1222.7	1296.3	1270.5	1267.9	1257.5	1229.1	1229.1
32.5°	4770.7	3469.2	1243.3	1075.5	1156.8	1162.0	1198.2	1200.7	1195.6	1146.5	1141.3
35°	4753.9	3220.0	1052.3	1010.9	1092.3	1089.7	1141.3	1140.1	1051.0	982.5	981.2
37.5°	4804.2	2967.0	938.6	958.0	1003.2	1036.8	1078.1	1003.2	973.5	932.2	929.6
40°	4911.4	2733.3	880.5	927.0	946.4	995.5	930.9	936.1	928.3	897.3	893.5
42.5°	5053.4	2534.5	848.3	916.7	914.1	927.0	856.0	876.7	888.3	865.0	861.2
45°	5190.3	2361.5	831.5	878.0	890.9	816.0	801.8	821.2	839.2	830.2	826.3
47.5°	5291.0	2211.7	822.4	825.0	861.2	778.5	755.3	764.3	786.3	790.2	788.9
50°	5322.0	2083.9	812.1	781.1	773.4	741.1	723.0	720.4	746.3	764.3	766.9
52.5°	5262.6	1970.2	785.0	742.4	705.0	710.1	703.7	690.7	716.6	741.1	743.7
55°	5174.8	1905.7	742.4	705.0	661.1	681.7	684.3	672.7	689.5	706.2	706.2
57.5°	5181.3	1943.1	701.1	670.1	622.3	649.4	663.6	658.5	658.5	671.4	672.7
60°	5223.9	1997.4	674.0	626.2	583.6	612.0	644.3	639.1	627.5	644.3	644.3
62.5°	5101.2	1925.1	655.9	583.6	542.3	575.8	614.6	612.0	599.1	626.2	628.8
65°	4739.7	1731.4	635.2	530.6	501.0	539.7	573.3	582.3	570.7	606.8	613.3
67.5°	3972.8	1456.4	595.2	480.3	459.6	495.8	528.1	541.0	531.9	574.5	579.7
70°	2961.8	1178.8	531.9	424.8	409.3	441.6	471.3	476.4	477.7	528.1	533.2
72.5°	1888.9	916.7	448.0	362.8	351.2	375.7	397.7	418.3	427.4	475.1	473.8
75°	1053.6	681.7	360.2	307.3	286.6	306.0	331.8	356.3	382.2	451.9	459.6
77.5°	606.8	479.0	285.3	246.6	222.1	242.7	264.7	299.5	377.0	437.7	429.9
80°	342.1	311.2	215.6	180.8	165.3	180.8	197.5	263.4	297.0	322.8	326.7
82.5°	160.1	174.3	147.2	111.0	111.0	121.4	136.9	204.0	224.7	183.3	160.1
85°	58.1	78.8	72.3	56.8	50.4	49.1	85.2	116.2	72.3	64.6	55.5
87.5°	15.5	21.9	20.7	14.2	7.7	6.5	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)