

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: P635165

Luminaire Tested: GWS-SA3D-730-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635165
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-SA3D-730-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16318.7 lumens
Efficiency: N/A
Efficacy: 135.1 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

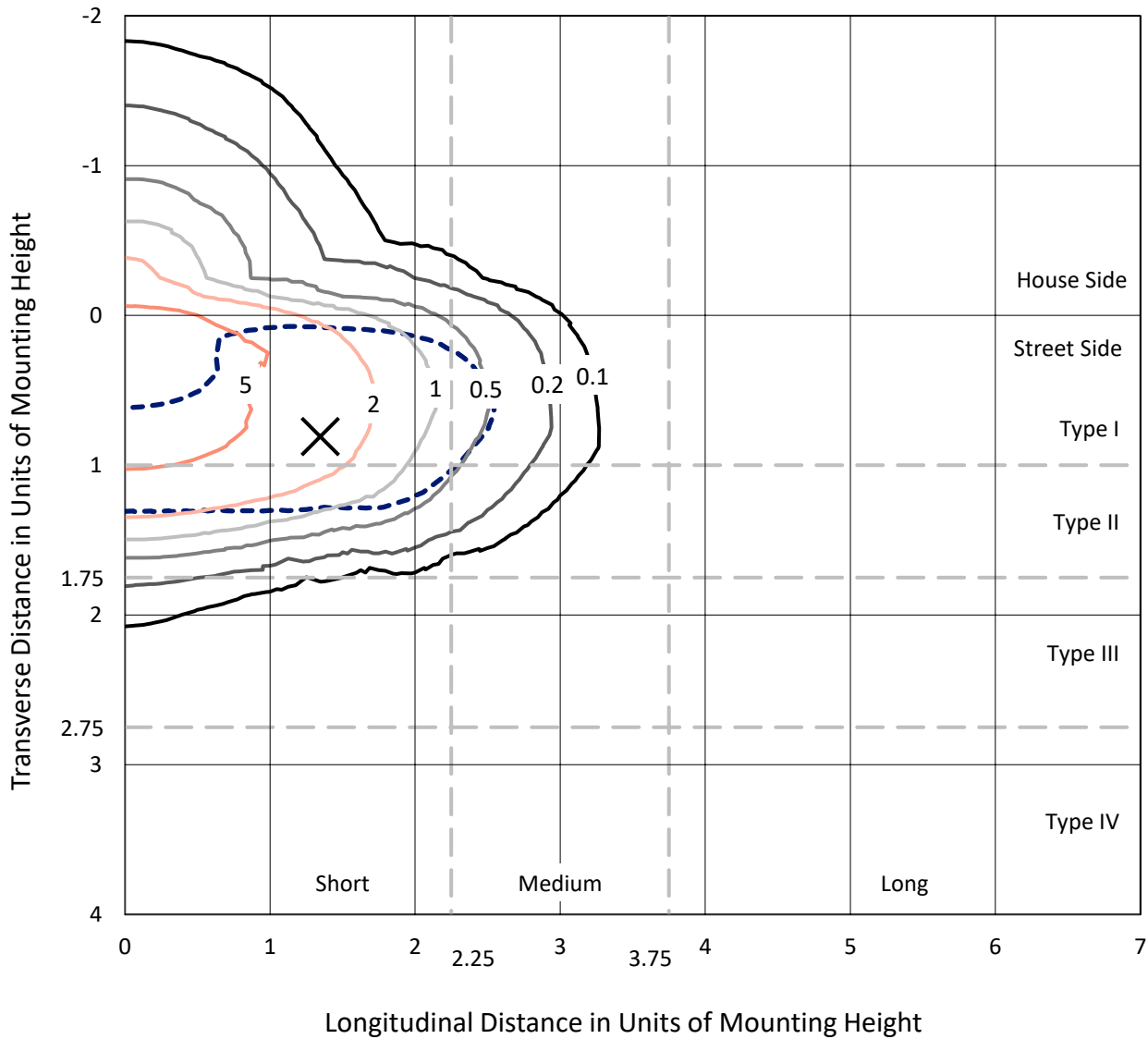
Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

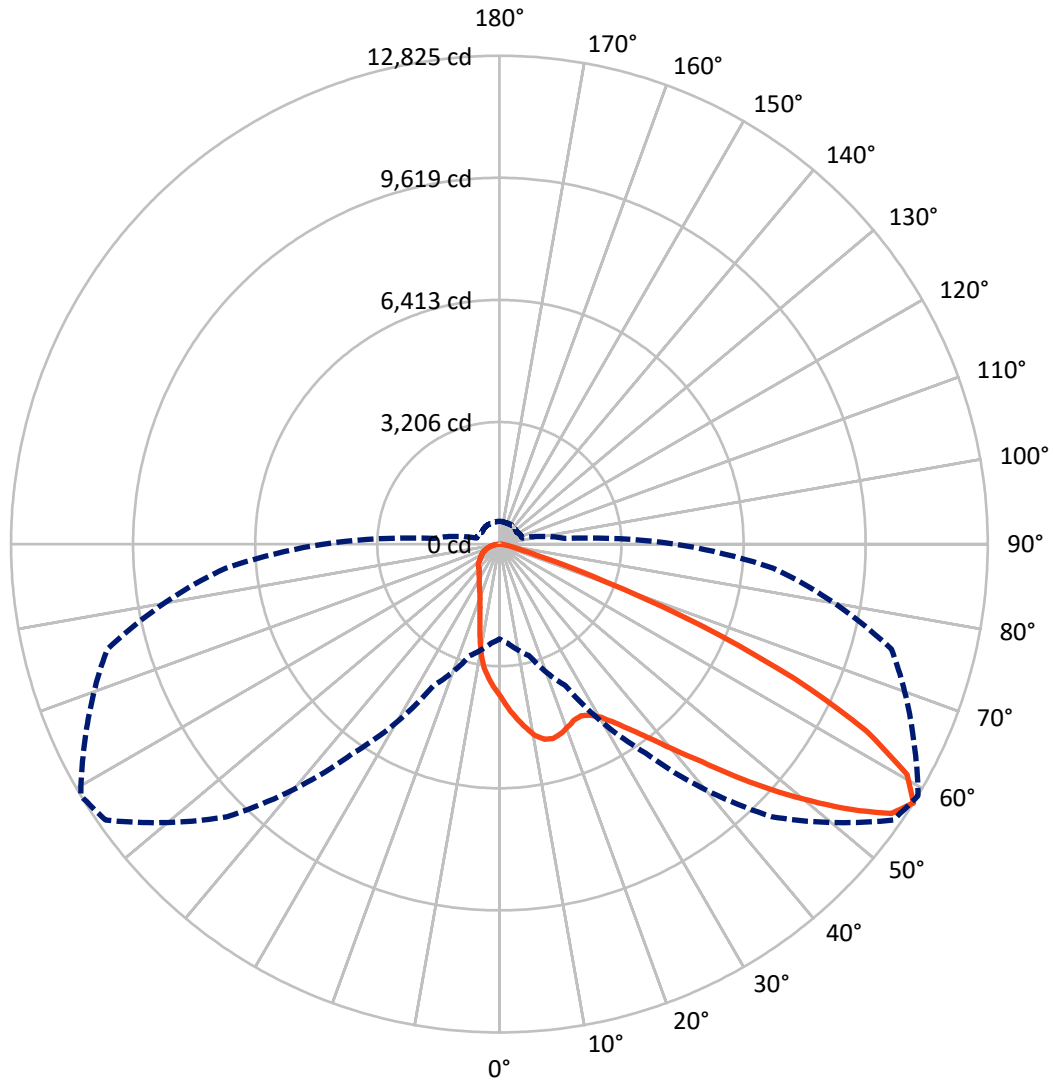
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	2532.6	0.0	2532.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	13786.1	0.0	13786.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	16318.7	0.0	16318.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.0	2.3
10°-20°	942.5	5.8
20°-30°	1527.9	9.4
30°-40°	2457.8	15.1
40°-50°	3816.7	23.4
50°-60°	4111.1	25.2
60°-70°	2385.9	14.6
70°-80°	622.9	3.8
80°-90°	82.0	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°	16318.7	100.0
0°-180°	16318.7	100.0

Coefficient of Utilization



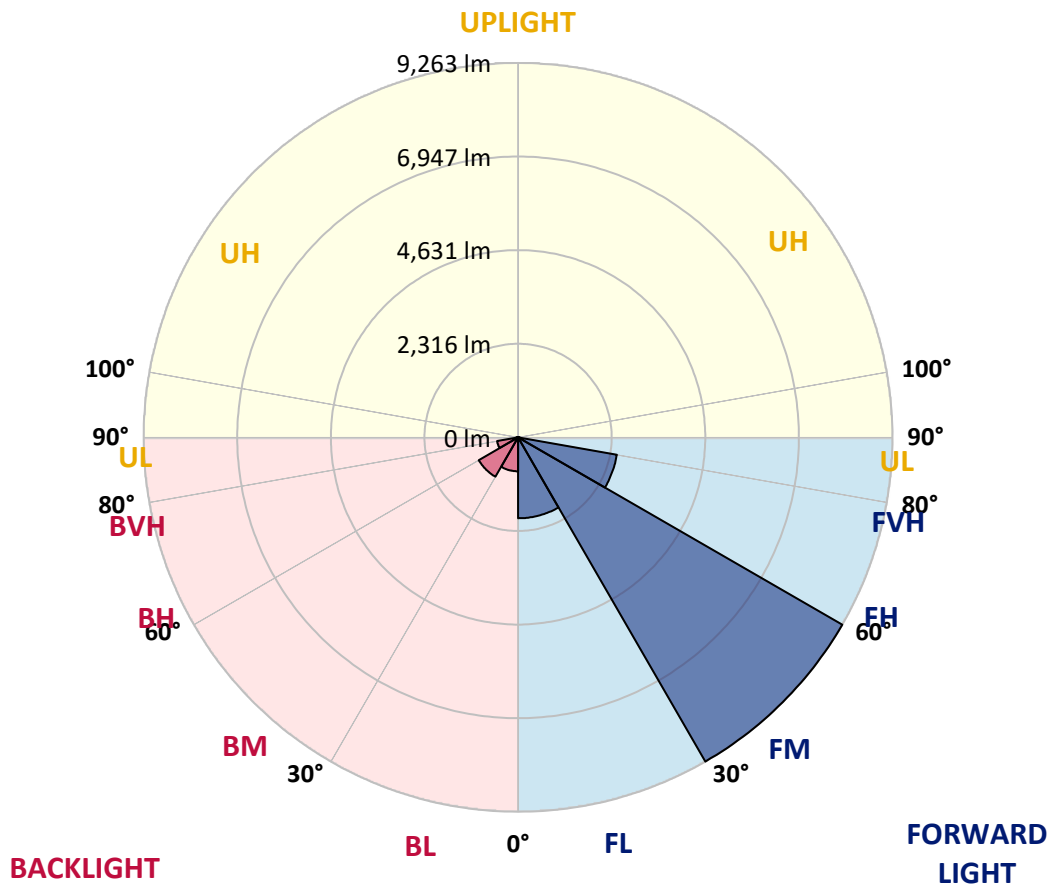
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2002.2	12.3			
FM (30°-60°)	9262.7	56.8			
FH (60°-80°)	2482.0	15.2			G2/5000
FVH (80°-90°)	39.3	0.2			G1/100
BL (0°-30°)	840.2	5.1	B2/1000		
BM (30°-60°)	1122.8	6.9	B2/2500		
BH (60°-80°)	526.8	3.2	B2/1000		G2/1000
BVH (80°-90°)	42.8	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°	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9
2.5°	4543.6	4505.6	4532.1	4485.0	4465.4	4413.7	4347.1	4302.3	4233.4	4143.8	4065.7
5°	4995.0	4968.6	4974.4	4923.8	4879.0	4792.9	4656.1	4580.3	4463.1	4282.8	4115.1
7.5°	4981.3	5012.3	5029.5	5073.2	5085.8	5077.8	4954.8	4849.1	4720.5	4449.4	4196.6
10°	4465.4	4524.0	4576.9	4726.2	4907.7	5137.5	5166.2	5103.0	4973.2	4661.9	4294.3
12.5°	3903.7	3948.5	3995.6	4174.8	4452.8	4912.3	5223.7	5262.7	5211.0	4872.1	4404.6
15°	3628.0	3648.6	3693.4	3811.8	4033.5	4543.6	5123.7	5294.9	5387.9	5095.0	4528.6
17.5°	3616.5	3625.7	3647.5	3710.7	3864.6	4258.7	4943.3	5230.6	5526.9	5330.5	4673.4
20°	3854.3	3830.1	3816.4	3815.2	3891.0	4163.3	4768.7	5127.2	5592.4	5571.7	4828.5
22.5°	4184.0	4192.0	4162.2	4088.6	4079.4	4231.1	4681.4	5022.6	5612.0	5785.4	4972.1
25°	4651.5	4691.8	4603.3	4463.1	4394.2	4427.5	4735.4	4990.4	5609.7	5963.5	5061.7
27.5°	5197.2	5228.3	5138.6	4954.8	4812.4	4732.0	4896.2	5085.8	5629.2	6117.4	5115.7
30°	5818.7	5829.1	5706.2	5513.2	5305.2	5132.9	5163.9	5282.2	5729.1	6319.6	5178.9
32.5°	6578.1	6621.8	6435.7	6130.1	5839.4	5618.8	5523.5	5599.3	5945.1	6558.6	5276.5
35°	7542.0	7556.9	7320.2	6882.5	6471.3	6165.7	5965.8	6006.0	6273.7	6892.9	5423.6
37.5°	8450.7	8465.6	8214.0	7807.3	7219.1	6801.0	6511.5	6493.1	6694.1	7365.0	5663.7
40°	9027.4	9069.9	8957.3	8702.3	8140.5	7576.4	7183.5	7120.3	7245.6	7942.9	5998.0
42.5°	9337.6	9355.9	9353.6	9387.0	9052.7	8492.0	7941.8	7815.4	7899.2	8566.7	6335.7
45°	9339.9	9385.8	9508.7	9829.3	9844.2	9494.9	8899.9	8702.3	8625.3	9195.1	6688.4
47.5°	8921.7	8971.1	9308.8	9939.5	10404.8	10484.1	10047.5	9651.2	9327.2	9736.2	6977.9
50°	7655.7	7779.8	8423.1	9538.6	10515.1	11276.8	11142.3	10604.7	9951.0	10154.4	7159.4
52.5°	6556.3	6551.7	6948.0	8405.9	10054.4	11626.0	12201.6	11585.8	10567.9	10419.7	7205.4
55°	4800.9	4827.3	5232.8	6428.8	8825.2	11288.2	12784.0	12488.8	11275.6	10561.0	7187.0
57.5°	2489.5	2620.4	3036.3	4102.4	6705.6	10125.6	12628.9	12825.4	11994.8	10661.0	7211.1
60°	1258.0	1232.7	1382.0	1958.7	3885.3	7908.4	11673.1	12299.2	12124.6	10739.1	7226.0
62.5°	839.8	832.9	791.5	907.6	1587.7	4683.7	9951.0	10828.7	11222.8	10555.3	7035.3
65°	727.2	713.4	637.6	633.0	770.9	1942.6	7293.8	8512.7	9275.5	9738.5	6579.3
67.5°	654.8	634.1	557.2	519.3	553.7	853.6	4110.5	5709.6	6849.2	8235.8	5579.8
70°	584.7	574.4	497.4	442.3	438.8	520.4	1514.1	2946.7	4190.9	5618.8	4079.4
72.5°	523.9	505.5	440.0	387.2	360.7	368.8	657.1	1135.0	2169.0	3505.0	2440.1
75°	453.8	440.0	382.6	329.7	297.5	270.0	400.9	525.0	989.1	1665.8	1152.3
77.5°	350.4	341.2	302.1	261.9	243.5	201.0	243.5	330.9	457.2	701.9	599.7
80°	203.3	209.1	225.2	204.5	179.2	143.6	158.5	190.7	274.6	380.3	340.0
82.5°	102.2	109.1	145.9	118.3	106.8	83.9	94.2	112.6	143.6	210.2	133.3
85°	8.0	8.0	26.4	29.9	36.8	29.9	37.9	46.0	65.5	83.9	44.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	5.7	10.3	19.5	12.6
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°	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9
2.5°	4012.8	3954.2	3884.1	3826.7	3738.2	3691.1	3631.4	3557.9	3528.0	3514.2	3506.2
5°	4020.8	3917.5	3768.1	3630.3	3477.5	3356.8	3222.4	3082.3	3001.9	2982.3	2968.5
7.5°	4050.7	3906.0	3668.2	3440.7	3156.9	2893.9	2637.7	2383.8	2254.0	2204.6	2200.0
10°	4092.1	3901.4	3567.1	3189.1	2710.1	2294.2	1994.3	1795.6	1711.7	1684.2	1675.0
12.5°	4143.8	3897.9	3433.8	2839.9	2194.2	1801.3	1630.2	1598.0	1609.5	1607.2	1607.2
15°	4209.3	3902.5	3273.0	2444.7	1774.9	1563.5	1567.0	1604.9	1640.5	1646.3	1646.3
17.5°	4280.5	3897.9	3039.8	2048.3	1523.3	1507.2	1560.1	1612.9	1645.1	1649.7	1649.7
20°	4357.5	3876.1	2745.7	1675.0	1413.0	1471.6	1529.1	1570.4	1590.0	1594.6	1594.6
22.5°	4403.4	3814.1	2426.3	1417.6	1343.0	1415.3	1453.2	1495.8	1498.1	1461.3	1460.1
25°	4396.5	3698.0	2062.1	1252.2	1268.3	1331.5	1379.7	1349.9	1313.1	1292.4	1289.0
27.5°	4352.9	3523.4	1691.1	1127.0	1179.8	1251.1	1236.1	1210.8	1201.7	1178.7	1176.4
30°	4297.7	3308.6	1357.9	1029.3	1087.9	1153.4	1130.4	1128.1	1118.9	1093.7	1093.7
32.5°	4244.9	3086.9	1106.3	957.0	1029.3	1033.9	1066.1	1068.4	1063.8	1020.1	1015.6
35°	4229.9	2865.1	936.3	899.5	971.9	969.6	1015.6	1014.4	935.1	874.2	873.1
37.5°	4274.7	2640.0	835.2	852.4	892.6	922.5	959.3	892.6	866.2	829.4	827.1
40°	4370.1	2432.0	783.5	824.8	842.1	885.7	828.3	832.9	826.0	798.4	795.0
42.5°	4496.5	2255.1	754.8	815.7	813.4	824.8	761.7	780.0	790.4	769.7	766.3
45°	4618.2	2101.2	739.8	781.2	792.7	726.1	713.4	730.6	746.7	738.7	735.2
47.5°	4707.8	1967.9	731.8	734.1	766.3	692.7	672.1	680.1	699.6	703.1	701.9
50°	4735.4	1854.2	722.6	695.0	688.1	659.4	643.3	641.0	664.0	680.1	682.4
52.5°	4682.6	1753.1	698.5	660.6	627.3	631.8	626.1	614.6	637.6	659.4	661.7
55°	4604.4	1695.6	660.6	627.3	588.2	606.6	608.9	598.5	613.5	628.4	628.4
57.5°	4610.2	1729.0	623.8	596.2	553.7	577.9	590.5	585.9	585.9	597.4	598.5
60°	4648.1	1777.2	599.7	557.2	519.3	544.5	573.3	568.7	558.3	573.3	573.3
62.5°	4539.0	1712.9	583.6	519.3	482.5	512.4	546.8	544.5	533.0	557.2	559.5
65°	4217.3	1540.6	565.2	472.2	445.7	480.2	510.1	518.1	507.8	539.9	545.7
67.5°	3534.9	1295.9	529.6	427.4	409.0	441.1	469.9	481.4	473.3	511.2	515.8
70°	2635.4	1048.9	473.3	378.0	364.2	392.9	419.3	423.9	425.1	469.9	474.5
72.5°	1680.7	815.7	398.6	322.8	312.5	334.3	353.8	372.2	380.3	422.8	421.6
75°	937.4	606.6	320.5	273.4	255.0	272.3	295.2	317.1	340.0	402.1	409.0
77.5°	539.9	426.2	253.9	219.4	197.6	216.0	235.5	266.5	335.5	389.4	382.6
80°	304.4	276.9	191.9	160.8	147.0	160.8	175.8	234.4	264.2	287.2	290.6
82.5°	142.5	155.1	131.0	98.8	98.8	108.0	121.8	181.5	199.9	163.1	142.5
85°	51.7	70.1	64.3	50.5	44.8	43.7	75.8	103.4	64.3	57.4	49.4
87.5°	13.8	19.5	18.4	12.6	6.9	5.7	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)