

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: P637774

Luminaire Tested: GWS-SA4D-740-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-740-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20417 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

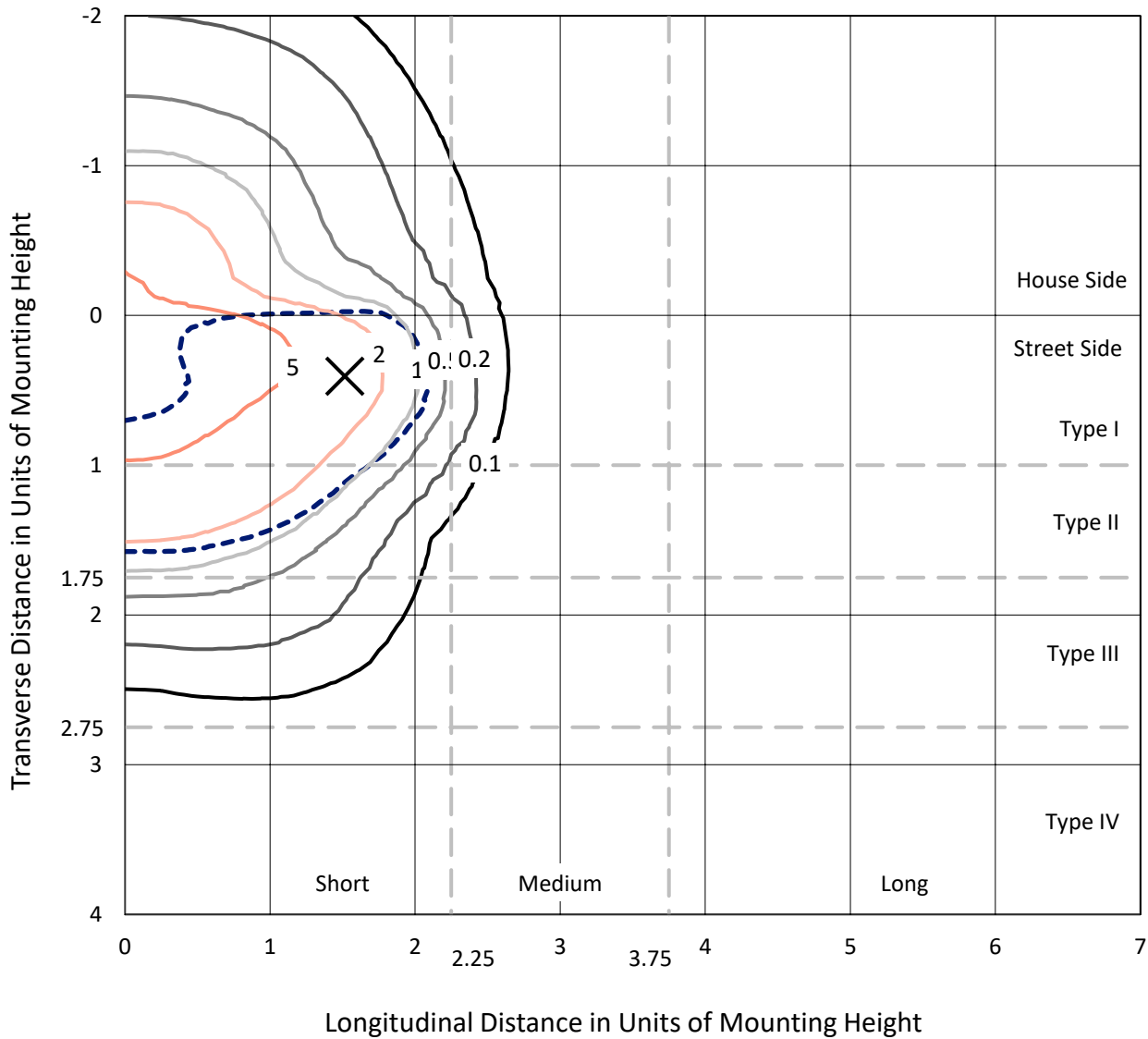
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

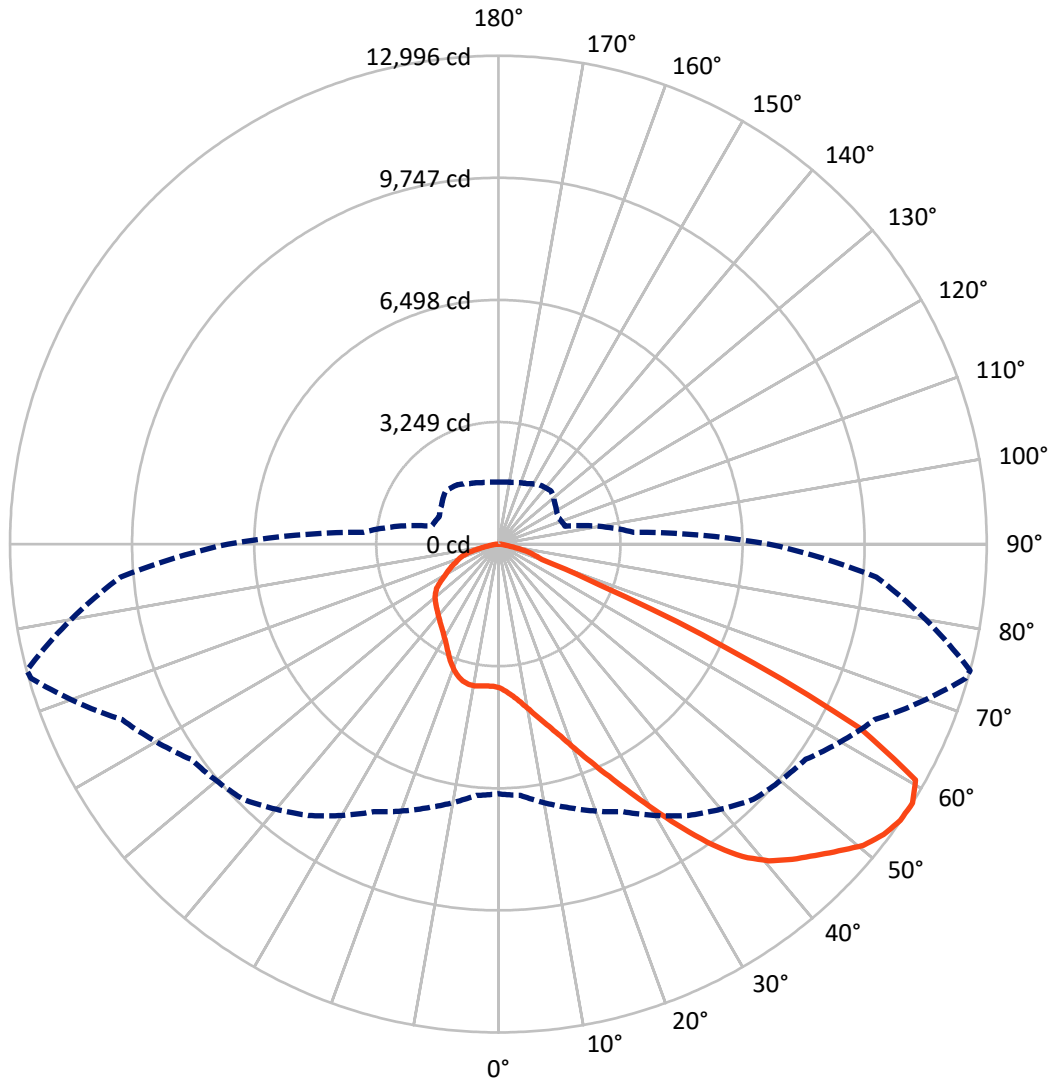
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5523.2	0.0	5523.2
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	14893.8	0.0	14893.8
	% Fixture	72.9	0.0	72.9
Total	Lumens	20417.0	0.0	20417.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.6	1.9
10°-20°	1218.2	6.0
20°-30°	2160.5	10.6
30°-40°	3307.3	16.2
40°-50°	4605.1	22.6
50°-60°	5276.6	25.8
60°-70°	2711.2	13.3
70°-80°	682.6	3.3
80°-90°	73.0	0.4
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°	20417.0	100.0
0°-180°	20417.0	100.0

Coefficient of Utilization



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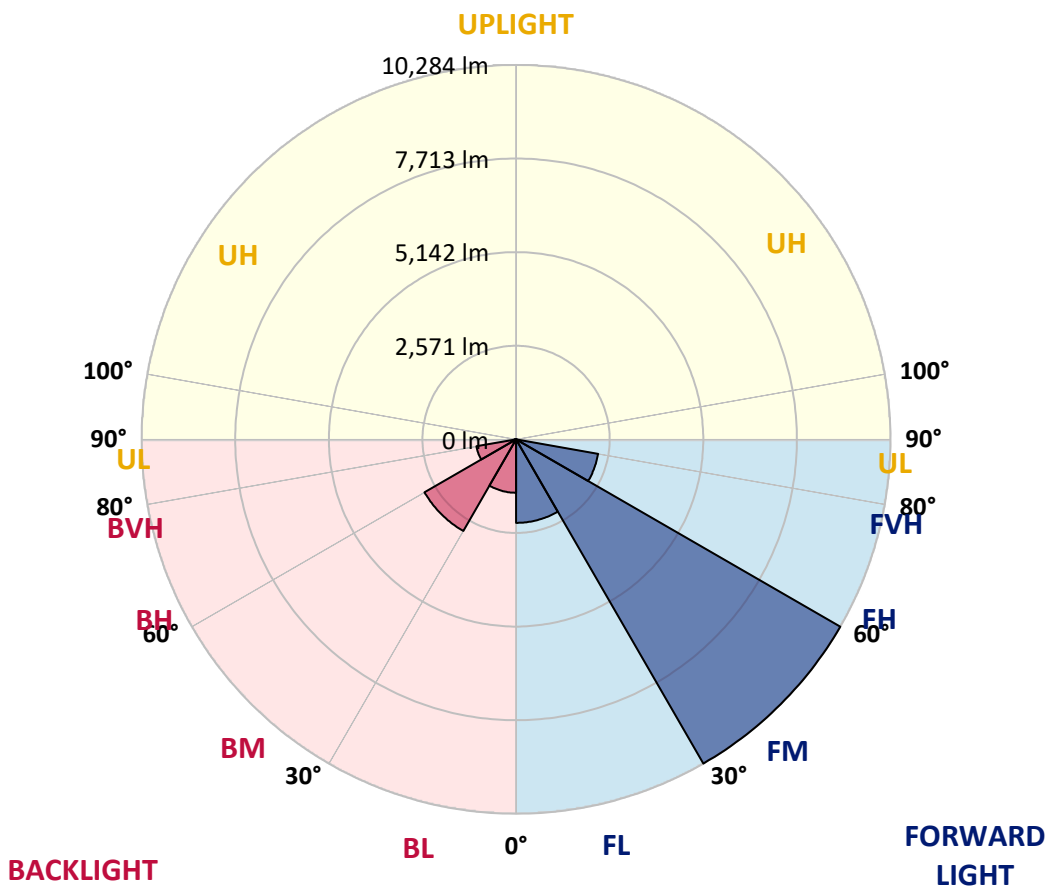
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2294.0	11.2			
FM (30°-60°)	10284.3	50.4			
FH (60°-80°)	2288.5	11.2			G2/5000
FVH (80°-90°)	27.0	0.1			G1/100
BL (0°-30°)	1467.3	7.2	B3/2500		
BM (30°-60°)	2904.7	14.2	B3/5000		
BH (60°-80°)	1105.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	46.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3823.6	3823.6	3823.6	3823.6	3823.6	3823.6	3823.6	3823.6	3823.6	3823.6	3823.6
2.5°	4108.0	4118.5	4108.0	4125.6	4090.5	4074.7	4036.0	3978.1	3932.5	3925.4	3874.5
5°	4427.5	4450.3	4436.3	4429.3	4381.9	4346.8	4288.8	4173.0	4078.2	4064.1	3964.1
7.5°	4632.9	4648.7	4648.7	4654.0	4636.4	4596.1	4534.6	4397.7	4264.3	4243.2	4092.2
10°	4701.4	4713.7	4736.5	4780.4	4815.5	4827.8	4787.4	4655.8	4492.5	4471.4	4260.7
12.5°	4717.2	4731.2	4766.4	4847.1	4943.7	5031.4	5038.5	4941.9	4759.3	4736.5	4455.6
15°	4747.0	4761.1	4808.5	4908.6	5050.8	5219.3	5322.9	5256.2	5054.3	5029.7	4676.8
17.5°	4743.5	4759.3	4829.6	4963.0	5154.3	5398.4	5598.5	5626.6	5417.7	5375.5	4927.9
20°	4734.8	4748.8	4824.3	4987.6	5224.6	5559.9	5921.5	6067.2	5842.5	5803.9	5221.0
22.5°	4805.0	4820.8	4878.7	5013.9	5261.4	5684.5	6220.0	6571.1	6346.4	6291.9	5558.1
25°	4963.0	4985.8	5020.9	5114.0	5328.1	5795.1	6525.4	7141.6	6911.6	6846.7	5925.0
27.5°	5207.0	5235.1	5284.2	5328.1	5477.4	5935.6	6829.1	7780.7	7550.7	7482.2	6313.0
30°	5505.4	5542.3	5605.5	5635.4	5737.2	6142.7	7159.2	8439.0	8305.6	8210.8	6750.1
32.5°	5918.0	5968.9	6028.6	6037.4	6098.8	6457.0	7485.7	9092.1	9090.3	9023.6	7247.0
35°	6455.2	6509.6	6521.9	6534.2	6564.0	6888.8	7880.7	9687.2	9917.2	9839.9	7787.7
37.5°	7041.6	7120.6	7139.9	7085.4	7127.6	7408.5	8324.9	10164.7	10636.9	10554.4	8310.8
40°	7668.3	7699.9	7752.6	7666.5	7719.2	8003.6	8760.3	10470.2	11174.2	11086.4	8723.4
42.5°	8117.7	8175.7	8254.7	8223.1	8252.9	8512.7	9065.7	10617.6	11556.9	11469.1	9020.1
45°	8605.8	8623.3	8674.2	8667.2	8684.8	8927.0	9285.2	10682.6	11899.2	11820.2	9272.9
47.5°	9030.6	9056.9	9090.3	9051.7	9013.1	9171.1	9464.2	10738.8	12294.2	12199.4	9538.0
50°	9439.7	9462.5	9502.9	9390.5	9246.5	9286.9	9552.0	10816.0	12664.6	12597.9	9746.9
52.5°	9515.1	9539.7	9729.3	9752.1	9567.8	9425.6	9706.5	10986.3	12882.3	12840.2	9822.4
55°	8565.4	8609.3	8986.7	9420.3	9875.0	9829.4	9954.0	11075.8	12968.3	12978.9	9957.5
57.5°	6648.3	6711.5	7262.8	7857.9	8814.7	9606.4	9985.6	11053.0	12938.5	12996.4	10096.2
60°	4360.8	4397.7	5050.8	5717.9	6709.8	7805.2	8937.6	10642.2	12673.4	12755.9	10061.1
62.5°	2633.3	2675.5	3200.4	3706.0	4290.6	5022.7	6062.0	8553.1	10622.9	10807.2	8058.0
65°	1838.1	1894.3	2354.2	2770.3	2972.2	2821.2	3070.5	4776.9	6618.5	6695.7	4924.4
67.5°	1332.5	1371.1	1748.5	2243.6	2466.6	1992.6	1518.6	2115.5	2882.6	2910.7	2031.2
70°	872.5	916.4	1258.7	1708.2	2013.6	1615.1	1135.8	1144.6	1213.1	1227.1	1179.7
72.5°	479.3	505.6	777.7	1134.1	1190.3	965.6	886.6	951.5	998.9	998.9	1011.2
75°	247.5	270.4	317.8	373.9	451.2	528.4	639.0	735.6	786.5	790.0	784.7
77.5°	126.4	135.2	170.3	184.3	201.9	235.2	305.5	391.5	437.1	454.7	451.2
80°	59.7	63.2	72.0	84.3	103.6	131.7	165.0	196.6	224.7	228.2	247.5
82.5°	31.6	35.1	38.6	45.6	56.2	70.2	96.6	115.9	133.4	136.9	152.7
85°	12.3	14.0	15.8	17.6	24.6	29.8	40.4	54.4	66.7	66.7	79.0
87.5°	0.0	0.0	0.0	0.0	1.8	3.5	7.0	8.8	12.3	12.3	21.1
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°	3823.6	3823.6	3823.6	3823.6	3823.6	3823.6	3823.6	3823.6	3823.6	3823.6	3823.6
2.5°	3862.2	3811.3	3788.5	3751.6	3721.8	3688.4	3662.1	3642.8	3630.5	3623.5	3616.5
5°	3925.4	3848.2	3786.7	3713.0	3662.1	3612.9	3572.6	3544.5	3530.4	3519.9	3512.9
7.5°	4023.7	3920.2	3804.3	3690.2	3600.7	3521.7	3470.7	3440.9	3421.6	3414.6	3409.3
10°	4158.9	4015.0	3823.6	3642.8	3509.4	3423.3	3388.2	3374.2	3375.9	3372.4	3370.7
12.5°	4311.7	4115.0	3818.3	3558.5	3411.1	3360.1	3361.9	3384.7	3411.1	3418.1	3419.8
15°	4476.7	4213.3	3767.4	3449.7	3333.8	3339.1	3384.7	3439.1	3488.3	3507.6	3511.1
17.5°	4655.8	4295.9	3674.4	3330.3	3270.6	3326.8	3411.1	3500.6	3572.6	3604.2	3612.9
20°	4855.9	4366.1	3542.7	3212.7	3210.9	3304.0	3426.9	3544.5	3635.8	3677.9	3684.9
22.5°	5068.3	4410.0	3381.2	3103.8	3149.5	3274.1	3414.6	3537.5	3634.0	3676.1	3684.9
25°	5282.5	4424.0	3203.9	3003.8	3086.3	3226.7	3354.9	3453.2	3544.5	3581.3	3588.4
27.5°	5482.6	4383.6	3035.4	2917.7	3028.3	3156.5	3242.5	3295.2	3358.4	3386.5	3391.7
30°	5686.3	4302.9	2893.2	2849.3	2963.4	3059.9	3098.6	3102.1	3126.7	3126.7	3130.2
32.5°	5891.7	4183.5	2768.5	2782.6	2882.6	2945.8	2951.1	2910.7	2880.9	2831.7	2830.0
35°	6128.7	4062.4	2666.7	2707.1	2787.8	2826.5	2810.7	2733.4	2661.4	2580.7	2577.2
37.5°	6348.1	3937.7	2580.7	2629.8	2680.7	2708.8	2672.0	2578.9	2519.2	2436.7	2424.4
40°	6528.9	3825.4	2498.2	2549.1	2573.7	2598.2	2538.5	2463.1	2471.8	2426.2	2424.4
42.5°	6634.3	3716.5	2420.9	2459.5	2475.3	2492.9	2440.2	2384.1	2431.5	2396.3	2398.1
45°	6711.5	3621.7	2350.7	2364.7	2403.4	2429.7	2380.5	2317.3	2327.9	2192.7	2161.1
47.5°	6799.3	3569.1	2284.0	2269.9	2338.4	2384.1	2308.6	2217.3	2154.1	2020.7	2008.4
50°	6892.3	3549.7	2213.8	2175.1	2257.7	2301.5	2213.8	2099.7	2017.1	1945.2	1938.1
52.5°	6923.9	3548.0	2126.0	2061.0	2143.5	2205.0	2131.3	2015.4	1917.1	1846.9	1843.3
55°	7048.6	3598.9	2013.6	1904.8	1982.0	2108.4	2054.0	1887.2	1808.2	1776.6	1773.1
57.5°	7194.3	3607.7	1836.3	1734.5	1841.6	1990.8	1922.3	1778.4	1692.4	1653.7	1650.2
60°	7134.6	3391.7	1646.7	1604.6	1722.2	1880.2	1817.0	1692.4	1592.3	1555.4	1551.9
62.5°	5437.0	2394.6	1508.0	1492.2	1594.1	1720.5	1708.2	1578.3	1483.4	1457.1	1453.6
65°	3270.6	1681.8	1374.6	1372.8	1444.8	1566.0	1581.8	1476.4	1376.4	1339.5	1339.5
67.5°	1616.9	1286.8	1223.6	1214.8	1260.5	1346.5	1413.2	1327.2	1242.9	1207.8	1202.6
70°	1142.9	1134.1	1113.0	1088.4	1097.2	1132.3	1160.4	1088.4	998.9	963.8	956.8
72.5°	988.4	990.1	976.1	956.8	949.8	925.2	900.6	847.9	793.5	756.6	760.2
75°	767.2	770.7	779.5	772.4	753.1	726.8	700.5	633.8	589.9	554.8	547.7
77.5°	447.7	465.2	493.3	486.3	489.8	452.9	442.4	377.4	337.1	312.5	307.2
80°	252.8	263.3	275.6	284.4	273.9	258.1	235.2	200.1	187.8	170.3	166.8
82.5°	152.7	163.3	168.5	175.6	172.0	151.0	133.4	110.6	100.1	91.3	89.5
85°	77.2	84.3	89.5	93.0	82.5	68.5	61.4	49.2	42.1	36.9	36.9
87.5°	19.3	21.1	24.6	21.1	19.3	8.8	7.0	1.8	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)