

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: P637733

Luminaire Tested: GWS-SA4D-735-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637733
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-735-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24554.2 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

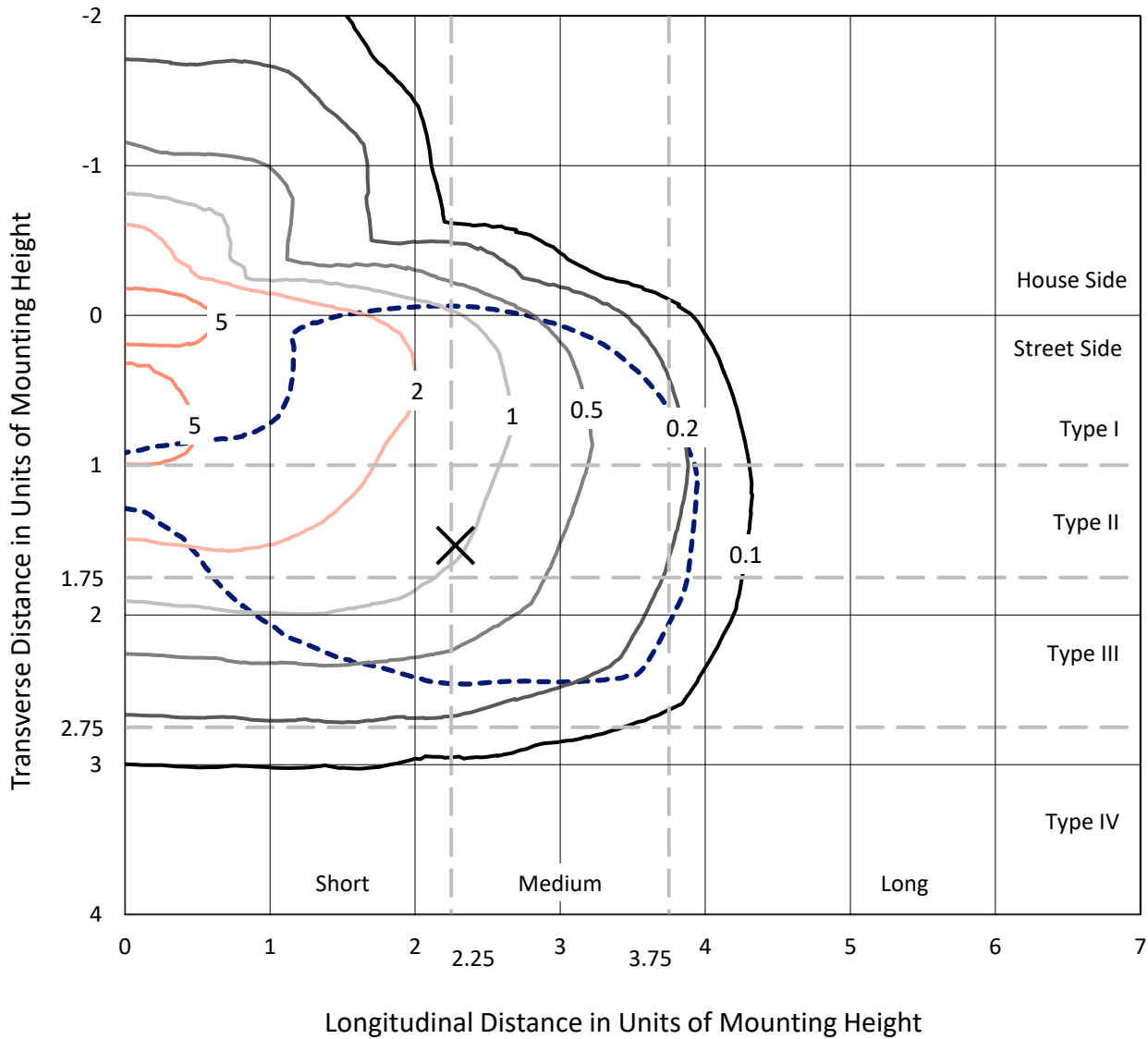
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

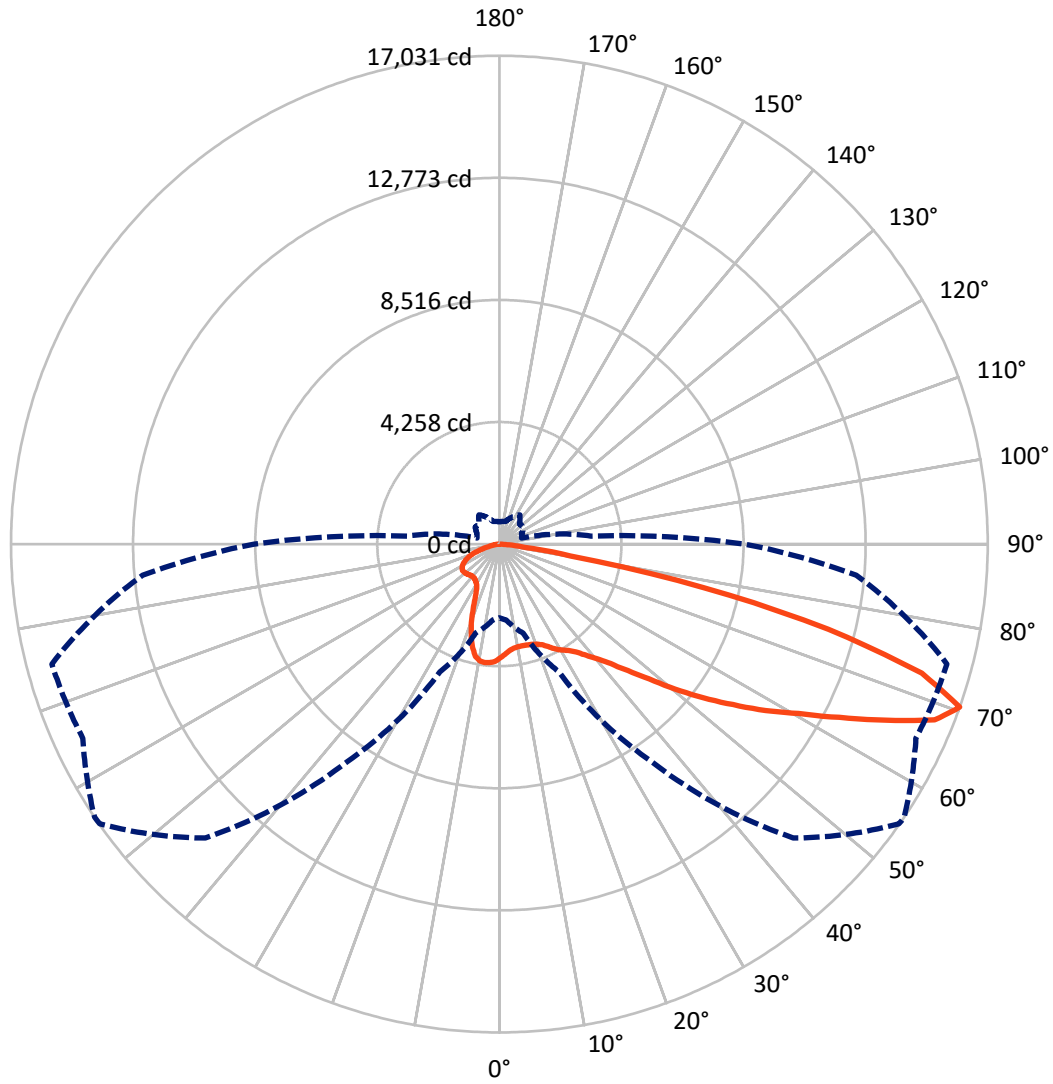
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	4720.6	0.0	4720.6
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	19833.6	0.0	19833.6
	% Fixture	80.8	0.0	80.8
Total	Lumens	24554.2	0.0	24554.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.8	1.5
10°-20°	993.8	4.0
20°-30°	1643.0	6.7
30°-40°	2456.5	10.0
40°-50°	3655.6	14.9
50°-60°	5197.2	21.2
60°-70°	6436.9	26.2
70°-80°	3554.2	14.5
80°-90°	250.3	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°	24554.2	100.0
0°-180°	24554.2	100.0

Coefficient of Utilization



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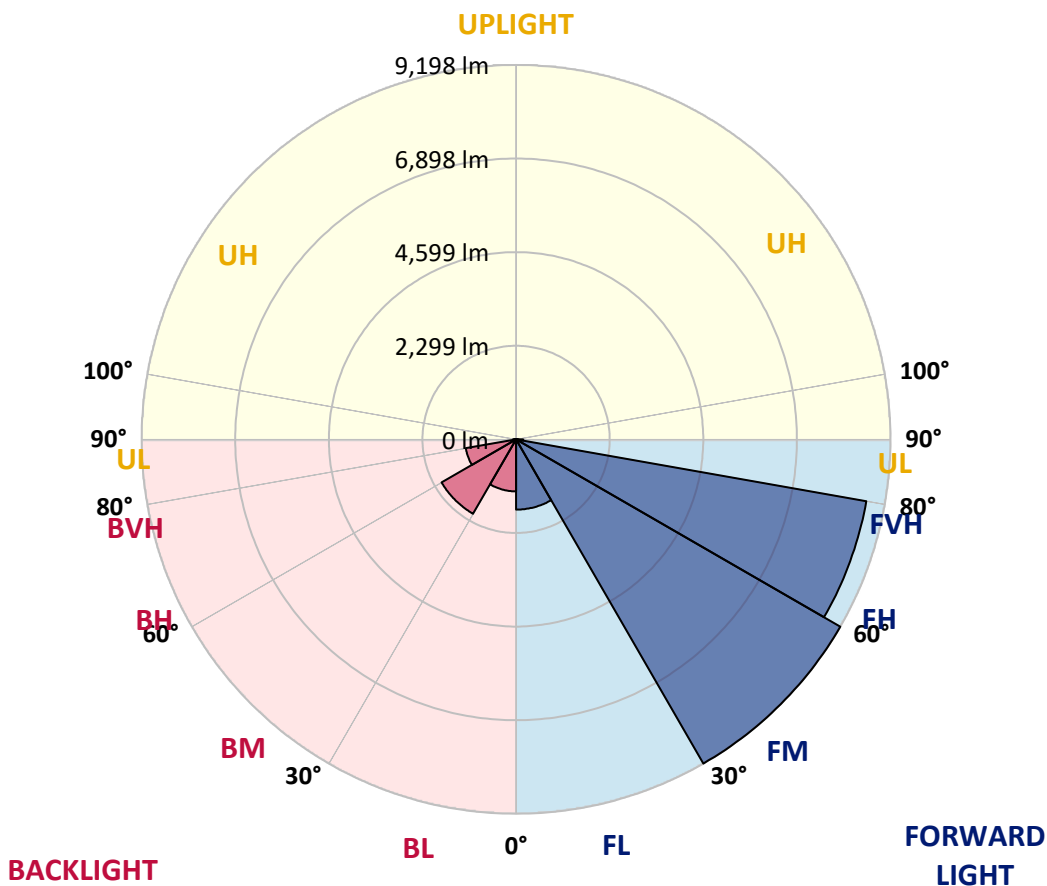
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1725.6	7.0			
FM (30°-60°)	9197.6	37.5			
FH (60°-80°)	8736.4	35.6			G4/12000
FVH (80°-90°)	173.9	0.7			G2/225
BL (0°-30°)	1277.9	5.2	B3/2500		
BM (30°-60°)	2111.6	8.6	B2/2500		
BH (60°-80°)	1254.7	5.1	B3/2500		G3/2500
BVH (80°-90°)	76.4	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°	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4
2.5°	3708.9	3688.1	3712.4	3724.5	3755.6	3800.7	3840.5	3842.2	3863.0	3913.2	3961.7
5°	3540.9	3530.5	3537.5	3573.8	3606.7	3663.9	3724.5	3729.7	3788.5	3887.2	3984.2
7.5°	3411.1	3397.2	3423.2	3469.9	3511.5	3575.6	3655.2	3662.1	3745.3	3894.2	4043.1
10°	3224.1	3213.7	3262.2	3324.5	3414.5	3520.2	3625.8	3634.4	3743.5	3939.2	4147.0
12.5°	3142.7	3142.7	3163.5	3222.3	3321.0	3461.3	3620.6	3634.4	3771.2	4008.4	4280.3
15°	3269.1	3277.7	3260.4	3257.0	3296.8	3430.1	3627.5	3648.3	3823.2	4079.4	4411.9
17.5°	3523.6	3532.3	3487.3	3416.3	3376.4	3459.6	3653.5	3676.0	3878.6	4157.4	4553.9
20°	3880.3	3890.7	3792.0	3682.9	3546.1	3544.4	3703.7	3724.5	3949.6	4242.2	4704.5
22.5°	4297.6	4304.5	4179.9	4006.7	3797.2	3702.0	3790.3	3811.1	4041.3	4359.9	4867.3
25°	4780.7	4801.5	4650.8	4399.8	4115.8	3918.4	3934.0	3958.2	4205.8	4517.5	5059.5
27.5°	5296.7	5322.7	5149.5	4872.5	4481.1	4157.4	4119.3	4140.0	4380.7	4614.5	5161.6
30°	5824.8	5843.8	5670.7	5353.8	4874.2	4427.5	4275.1	4287.2	4456.9	4661.2	5265.5
32.5°	6411.8	6396.2	6230.0	5864.6	5327.9	4751.3	4420.5	4417.1	4541.7	4754.7	5414.4
35°	6962.4	6984.9	6808.3	6404.9	5826.5	5151.2	4638.7	4624.9	4721.8	4907.1	5623.9
37.5°	7629.0	7622.1	7410.9	6974.5	6326.9	5533.9	4945.2	4921.0	4955.6	5144.3	5916.6
40°	8105.2	8153.7	8016.9	7610.0	6912.2	6004.9	5303.6	5249.9	5258.6	5436.9	6307.9
42.5°	8494.8	8539.8	8553.7	8293.9	7582.3	6586.7	5750.3	5696.7	5701.9	5954.7	6789.2
45°	8794.3	8854.9	9050.6	8974.4	8337.2	7258.5	6354.6	6299.2	6302.7	6583.2	7371.0
47.5°	8917.3	8983.1	9379.6	9561.4	9138.9	8061.9	7106.1	7024.7	7036.9	7346.8	8035.9
50°	8877.4	8965.8	9502.5	10013.3	9810.7	8879.2	8004.8	7947.6	7900.9	8351.1	8758.0
52.5°	8534.6	8631.6	9490.4	10300.8	10359.6	9651.4	8932.9	8900.0	8889.6	9417.7	9564.9
55°	7525.1	7687.9	9073.1	10376.9	10789.0	10378.7	9938.9	9883.5	9937.1	10560.5	10380.4
57.5°	6965.9	7087.1	8255.8	10292.1	11140.5	11071.3	10943.1	10948.3	11008.9	11802.0	11369.1
60°	6647.3	6789.2	7802.2	10060.1	11478.2	11912.8	11994.2	11994.2	12103.3	13140.4	12373.4
62.5°	6224.8	6368.5	7378.0	9613.3	11789.8	12903.2	13315.3	13310.1	13353.4	14575.8	13355.1
65°	5367.7	5501.0	6526.1	8908.6	11942.2	13994.1	14816.5	14800.9	14714.4	15853.7	14004.4
67.5°	3897.6	4024.0	4998.9	7568.4	11393.3	14873.7	16362.8	16369.7	15852.0	16658.9	14039.1
70°	2569.6	2656.1	3213.7	4915.8	9265.3	14494.5	17010.4	17031.1	16026.9	16156.7	12494.6
72.5°	1603.4	1664.0	2006.8	2931.4	5475.0	11473.0	15348.1	15405.2	14418.3	14198.4	10266.1
75°	1064.9	1106.4	1335.0	1709.0	2533.2	6209.2	11666.9	11850.5	11556.1	11130.1	7152.9
77.5°	640.7	675.3	850.2	1085.7	1122.0	2425.8	6810.0	7284.5	7326.0	5810.9	2995.5
80°	292.6	332.4	469.2	619.9	597.4	845.0	2401.6	2512.4	2964.3	1845.8	945.4
82.5°	173.2	190.5	311.7	308.2	254.5	410.4	864.0	886.5	753.2	675.3	403.4
85°	69.3	81.4	131.6	116.0	93.5	133.3	325.5	341.1	327.3	294.4	148.9
87.5°	0.0	0.0	0.0	0.0	1.7	3.5	29.4	31.2	45.0	81.4	45.0
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°	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4	3963.4
2.5°	3992.9	3982.5	4034.4	4074.2	4091.6	4108.9	4093.3	4088.1	4088.1	4053.5	4036.1
5°	4036.1	4041.3	4112.3	4145.2	4145.2	4131.4	4089.8	4060.4	4050.0	4005.0	3992.9
7.5°	4117.5	4140.0	4205.8	4204.1	4155.6	4079.4	3975.5	3895.9	3823.2	3792.0	3773.0
10°	4250.9	4280.3	4325.3	4252.6	4117.5	3916.7	3696.8	3523.6	3419.7	3336.6	3336.6
12.5°	4403.2	4430.9	4422.3	4254.3	3975.5	3599.8	3282.9	3083.8	2938.4	2862.2	2862.2
15°	4555.6	4578.1	4484.6	4174.7	3679.5	3179.1	2832.7	2593.8	2467.4	2396.4	2396.4
17.5°	4709.7	4708.0	4510.6	3991.1	3293.3	2713.3	2373.9	2188.6	2145.3	2133.2	2131.5
20°	4858.6	4818.8	4477.7	3684.7	2844.9	2244.0	2029.3	2041.4	2105.5	2133.2	2136.7
22.5°	5026.6	4927.9	4380.7	3293.3	2335.8	1918.5	1932.4	2032.8	2126.3	2167.9	2173.0
25°	5198.0	5021.4	4218.0	2834.5	1909.9	1799.0	1906.4	2018.9	2124.6	2178.2	2183.4
27.5°	5267.3	5021.4	3940.9	2302.9	1683.0	1748.8	1866.6	1975.7	2086.5	2148.8	2160.9
30°	5324.4	4978.1	3553.1	1823.3	1589.5	1700.3	1802.5	1902.9	2012.0	2088.2	2102.1
32.5°	5404.0	4940.0	3083.8	1532.4	1546.2	1653.6	1724.6	1809.4	1908.1	1958.3	1953.1
35°	5497.5	4881.1	2517.6	1393.9	1509.9	1613.8	1664.0	1714.2	1669.2	1667.4	1672.6
37.5°	5630.9	4829.2	2024.1	1331.5	1485.6	1586.1	1627.6	1520.3	1457.9	1432.0	1421.6
40°	5823.1	4808.4	1596.5	1295.2	1482.2	1584.3	1554.9	1388.7	1303.8	1213.8	1212.1
42.5°	6065.5	4792.8	1319.4	1277.9	1494.3	1624.2	1454.5	1302.1	1127.2	1087.4	1083.9
45°	6377.1	4768.6	1180.9	1274.4	1523.7	1655.3	1444.1	1182.6	1063.1	1045.8	1045.8
47.5°	6752.9	4730.5	1118.6	1274.4	1556.6	1641.5	1412.9	1156.6	1033.7	1052.8	1064.9
50°	7184.0	4682.0	1085.7	1270.9	1589.5	1641.5	1347.1	1151.5	1026.8	1125.5	1165.3
52.5°	7644.6	4626.6	1063.1	1257.1	1612.0	1643.2	1350.6	1168.8	1033.7	1142.8	1175.7
55°	8153.7	4617.9	1032.0	1227.6	1619.0	1598.2	1359.2	1206.9	1044.1	1035.4	1037.2
57.5°	8796.1	4721.8	1009.5	1184.4	1591.3	1506.4	1376.6	1234.6	1032.0	1033.7	1045.8
60°	9467.9	4917.5	1028.5	1142.8	1534.1	1419.8	1388.7	1220.7	973.1	945.4	948.9
62.5°	10039.3	5066.4	1044.1	1123.7	1451.0	1343.7	1376.6	1189.5	940.2	933.3	948.9
65°	10278.2	4943.5	1006.0	1083.9	1329.8	1250.1	1350.6	1149.7	912.5	886.5	888.3
67.5°	10013.3	4366.9	931.6	995.6	1193.0	1130.7	1309.0	1097.8	874.4	843.2	836.3
70°	8553.7	3208.5	803.4	855.4	1026.8	990.4	1245.0	1030.2	813.8	791.3	775.7
72.5°	6893.1	2271.7	666.6	680.5	805.2	834.6	1134.1	945.4	744.5	680.5	658.0
75°	4798.0	1426.8	555.8	542.0	581.8	637.2	884.8	784.4	642.4	574.9	554.1
77.5°	2064.0	732.4	434.6	427.7	387.9	441.5	678.8	654.5	538.5	460.6	448.5
80°	690.9	424.2	313.4	301.3	258.0	309.9	477.9	522.9	422.5	341.1	320.3
82.5°	346.3	245.9	199.1	180.1	173.2	195.7	282.2	325.5	292.6	235.5	199.1
85°	169.7	140.3	109.1	107.4	90.0	84.8	117.7	138.5	131.6	97.0	91.8
87.5°	62.3	55.4	34.6	27.7	17.3	12.1	6.9	6.9	5.2	5.2	5.2
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)