

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: P637040

Luminaire Tested: GWS-SA4C-722-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637040  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-722-U-SL2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

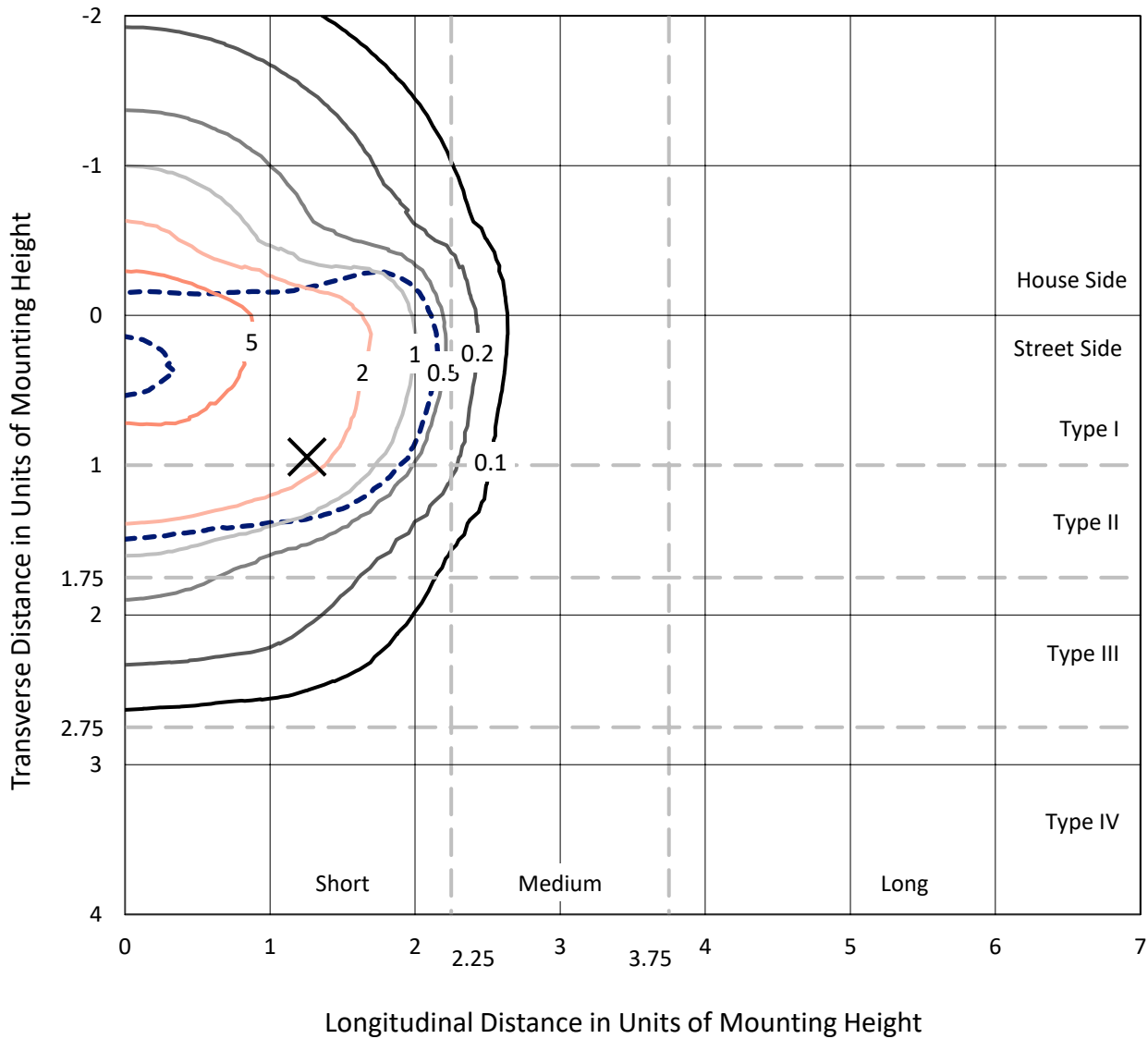
Lumens per Lamp: N/A  
Luminaire Lumens: 12178.3 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

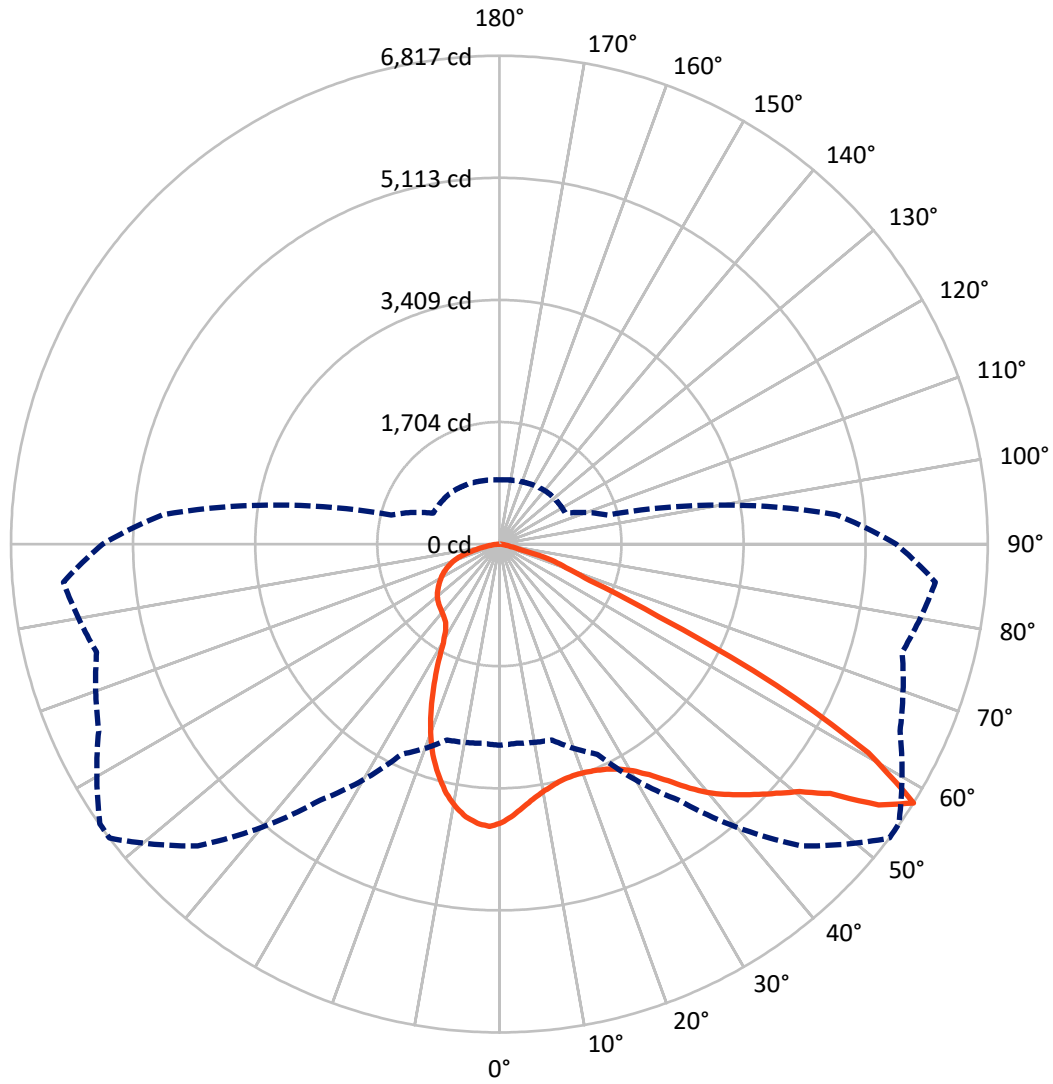
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P637040  
CATALOG NUMBER: GWS-SA4C-722-U-SL2-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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CATALOG NUMBER: GWS-SA4C-722-U-SL2-W-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3807.7	0.0	3807.7
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	8370.6	0.0	8370.6
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	12178.3	0.0	12178.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.7	2.9
10°-20°	922.6	7.6
20°-30°	1359.3	11.2
30°-40°	1902.7	15.6
40°-50°	2501.3	20.5
50°-60°	2932.7	24.1
60°-70°	1727.7	14.2
70°-80°	429.8	3.5
80°-90°	50.4	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°	12178.3	100.0
0°-180°	12178.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637040

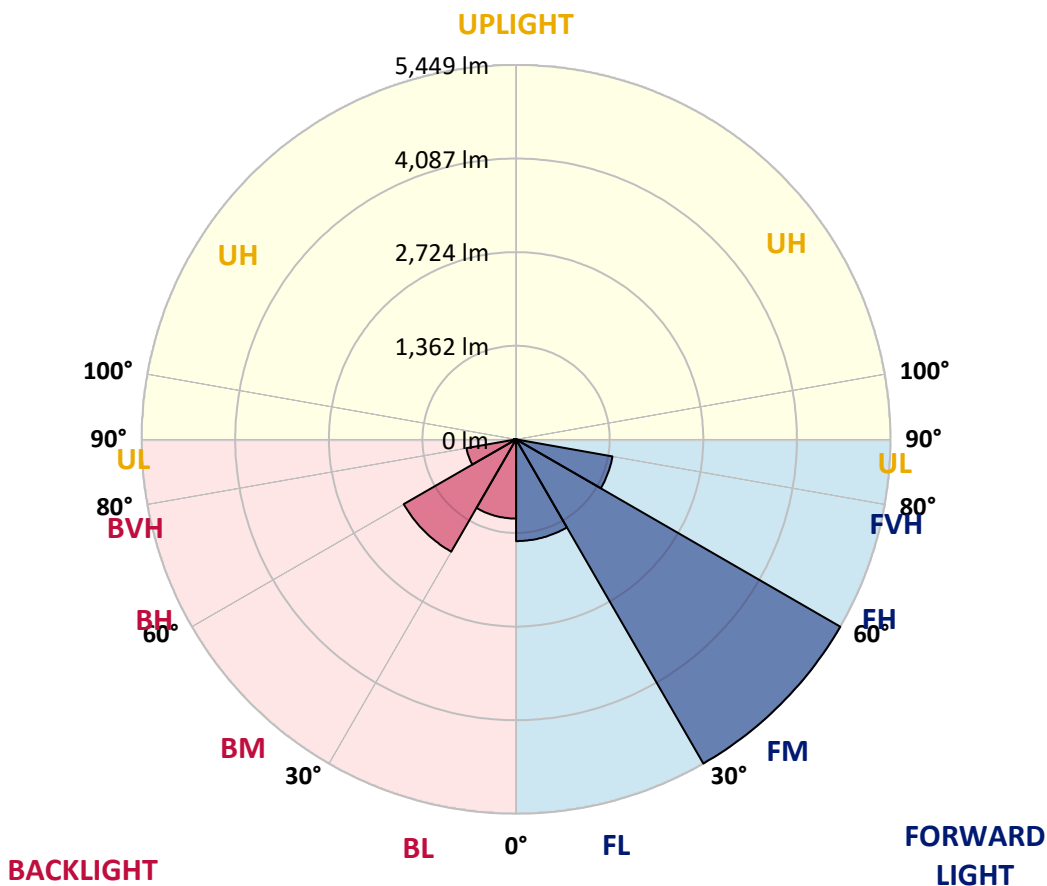
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1480.6	12.2			
FM (30°-60°)	5448.7	44.7			
FH (60°-80°)	1424.4	11.7			G1/1800
FVH (80°-90°)	16.9	0.1			G1/100
BL (0°-30°)	1153.0	9.5	B3/2500		
BM (30°-60°)	1888.1	15.5	B2/2500		
BH (60°-80°)	733.1	6.0	B2/1000		G2/1000
BVH (80°-90°)	33.6	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-G2**

Type II Short





REPORT NUMBER: P637040

CATALOG NUMBER: GWS-SA4C-722-U-SL2-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3888.9	3888.9	3888.9	3888.9	3888.9	3888.9	3888.9	3888.9	3888.9	3888.9	3888.9
2.5°	3665.4	3675.7	3677.7	3709.5	3711.5	3757.7	3788.4	3782.3	3814.0	3853.0	3883.7
5°	3490.1	3491.2	3501.4	3539.3	3559.8	3620.3	3671.6	3671.6	3733.1	3813.0	3881.7
7.5°	3345.6	3344.6	3353.8	3395.8	3429.7	3502.4	3572.1	3580.3	3666.4	3783.3	3895.0
10°	3211.3	3218.5	3228.8	3280.0	3323.1	3413.3	3496.3	3509.6	3618.3	3762.8	3913.5
12.5°	3125.2	3126.3	3141.6	3199.0	3254.4	3350.7	3437.9	3454.3	3579.3	3743.3	3926.8
15°	3069.9	3070.9	3087.3	3150.9	3215.4	3312.8	3402.0	3420.4	3556.8	3740.2	3952.4
17.5°	3045.3	3044.3	3059.6	3123.2	3193.9	3295.4	3390.7	3413.3	3567.0	3763.8	3997.5
20°	3045.3	3046.3	3054.5	3111.9	3183.7	3291.3	3402.0	3429.7	3607.0	3817.1	4067.2
22.5°	3088.3	3092.4	3096.5	3135.5	3191.9	3297.4	3431.7	3468.6	3693.1	3906.3	4158.4
25°	3172.4	3173.4	3177.5	3209.3	3234.9	3314.9	3480.9	3536.3	3827.4	4036.5	4273.2
27.5°	3285.1	3299.5	3303.6	3324.1	3324.1	3357.9	3557.8	3637.7	4008.8	4224.0	4419.8
30°	3443.0	3448.1	3455.3	3477.8	3453.2	3438.9	3670.5	3773.0	4218.9	4450.6	4596.1
32.5°	3581.4	3592.6	3631.6	3668.5	3624.4	3579.3	3836.6	3957.5	4420.8	4686.3	4783.7
35°	3699.2	3726.9	3801.7	3883.7	3853.0	3807.9	4057.0	4183.0	4586.9	4855.4	4949.7
37.5°	3841.7	3863.2	3965.7	4099.0	4126.7	4105.1	4325.5	4415.7	4697.6	4898.5	5039.9
40°	3986.2	4019.0	4151.3	4335.8	4441.3	4456.7	4573.6	4634.0	4735.5	4814.4	5022.5
42.5°	4133.8	4190.2	4371.6	4586.9	4774.5	4809.3	4782.7	4808.3	4723.2	4698.6	4941.5
45°	4314.2	4380.9	4585.9	4860.6	5107.6	5161.9	4987.7	4964.1	4721.2	4654.5	4891.3
47.5°	4527.4	4594.1	4789.8	5109.6	5425.3	5465.3	5197.8	5154.7	4792.9	4722.2	4959.0
50°	4716.0	4762.2	4937.4	5295.2	5721.6	5745.1	5429.4	5377.2	4971.3	4909.8	5170.1
52.5°	4524.4	4519.2	4703.7	5144.5	5875.3	6159.2	5786.1	5735.9	5315.7	5221.4	5497.1
55°	3838.6	3780.2	3945.2	4378.8	5445.8	6527.2	6425.7	6325.3	5774.9	5535.0	5803.6
57.5°	2806.5	2790.1	2830.0	3237.0	4362.4	5957.3	6817.3	6808.1	6171.5	5822.0	6109.0
60°	2194.5	2169.9	2063.3	2074.6	2973.5	4653.5	5916.3	6187.9	6417.5	5994.2	6322.2
62.5°	1948.5	1930.1	1874.7	1722.0	1771.2	3120.1	4336.8	4585.9	5607.8	5294.1	5430.5
65°	1613.4	1608.2	1654.4	1648.2	1484.2	1723.0	2447.7	2698.8	3526.0	3570.1	3526.0
67.5°	1172.6	1163.4	1280.2	1510.9	1428.9	1300.7	1364.3	1451.4	1808.1	1623.6	1461.7
70°	762.6	749.3	816.9	1091.6	1279.2	1133.7	983.0	968.6	994.3	618.1	668.3
72.5°	511.5	496.1	495.1	600.7	772.9	763.6	761.6	754.4	673.4	487.9	541.2
75°	285.0	272.7	269.6	259.3	276.8	281.9	300.3	310.6	336.2	370.0	410.0
77.5°	48.2	47.2	59.5	75.9	104.6	134.3	166.1	175.3	216.3	256.3	281.9
80°	26.7	27.7	35.9	44.1	58.4	80.0	102.5	108.7	133.3	154.8	175.3
82.5°	14.4	14.4	18.5	23.6	31.8	42.0	55.4	60.5	76.9	90.2	104.6
85°	5.1	5.1	7.2	9.2	13.3	17.4	21.5	24.6	33.8	46.1	52.3
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	4.1	4.1	5.1	9.2	13.3
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°	3888.9	3888.9	3888.9	3888.9	3888.9	3888.9	3888.9	3888.9	3888.9	3888.9	3888.9
2.5°	3909.4	3881.7	3919.6	3937.0	3943.2	3947.3	3920.6	3902.2	3896.0	3876.6	3865.3
5°	3923.7	3905.3	3941.1	3941.1	3915.5	3888.9	3834.5	3796.6	3770.0	3738.2	3733.1
7.5°	3948.3	3935.0	3954.5	3914.5	3849.9	3778.2	3683.9	3610.1	3550.6	3511.7	3512.7
10°	3981.1	3964.7	3949.3	3860.2	3742.3	3610.1	3465.5	3357.9	3259.5	3214.4	3189.8
12.5°	4002.6	3979.1	3914.5	3766.9	3593.7	3416.3	3212.4	3052.5	2910.0	2845.4	2840.3
15°	4029.3	3986.2	3857.1	3645.9	3405.1	3163.2	2900.8	2678.3	2485.6	2385.2	2380.1
17.5°	4064.1	3993.4	3788.4	3507.6	3206.2	2849.5	2519.5	2239.6	2034.6	1956.7	1970.1
20°	4113.3	4001.6	3710.5	3353.8	2959.2	2492.8	2081.8	1824.5	1745.6	1740.5	1730.2
22.5°	4168.7	4006.7	3624.4	3181.6	2659.9	2112.5	1720.0	1610.3	1609.3	1634.9	1641.0
25°	4231.2	4010.8	3527.0	2980.7	2336.0	1733.3	1521.1	1488.3	1513.9	1562.1	1568.3
27.5°	4311.2	4019.0	3409.2	2760.3	1991.6	1497.5	1411.4	1403.2	1434.0	1479.1	1477.0
30°	4429.0	4048.8	3284.1	2507.2	1638.0	1385.8	1344.8	1345.8	1358.1	1379.7	1382.7
32.5°	4549.0	4094.9	3162.1	2222.2	1435.0	1322.3	1303.8	1301.8	1301.8	1311.0	1313.0
35°	4662.7	4147.2	3029.9	1925.0	1336.6	1285.4	1273.1	1266.9	1263.8	1261.8	1258.7
37.5°	4726.3	4172.8	2900.8	1631.8	1284.3	1260.8	1248.5	1240.3	1229.0	1220.8	1218.7
40°	4698.6	4143.1	2751.1	1412.5	1252.6	1237.2	1222.8	1211.6	1196.2	1189.0	1184.9
42.5°	4606.4	4050.8	2588.1	1308.9	1226.9	1211.6	1194.1	1175.7	1165.4	1159.3	1158.3
45°	4509.0	3939.1	2391.3	1248.5	1202.3	1183.9	1163.4	1142.9	1131.6	1128.5	1127.5
47.5°	4505.9	3883.7	2182.2	1200.3	1172.6	1154.2	1128.5	1108.0	1095.7	1091.6	1087.5
50°	4641.2	3940.1	1946.5	1158.3	1141.9	1122.4	1093.7	1071.1	1055.8	1050.6	1049.6
52.5°	4922.1	4152.3	1735.3	1116.2	1100.9	1078.3	1054.7	1032.2	1013.7	1004.5	1003.5
55°	5225.5	4421.9	1604.1	1073.2	1052.7	1033.2	1011.7	987.1	966.6	952.2	950.2
57.5°	5539.1	4716.0	1564.2	1018.9	1003.5	990.2	964.5	937.9	914.3	901.0	897.9
60°	5797.4	4969.2	1639.0	961.5	953.3	935.8	912.3	886.6	870.2	860.0	857.9
62.5°	4853.4	4045.7	1323.3	898.9	898.9	880.5	853.8	835.4	824.1	816.9	814.9
65°	3080.1	2505.1	903.0	836.4	835.4	810.8	788.2	775.9	770.8	759.5	757.5
67.5°	1341.7	1144.9	771.8	772.9	768.8	742.1	719.6	710.3	700.1	687.8	686.8
70°	696.0	709.3	690.9	702.1	695.0	663.2	641.7	627.3	605.8	593.5	594.5
72.5°	561.7	576.1	596.6	614.0	598.6	573.0	539.2	521.7	494.1	480.7	481.8
75°	428.5	443.8	463.3	481.8	469.5	437.7	416.2	398.7	367.0	351.6	354.7
77.5°	295.2	303.4	327.0	326.0	321.9	312.6	280.9	260.4	227.6	209.1	211.2
80°	183.5	188.6	199.9	205.0	203.0	190.7	165.0	149.7	130.2	118.9	119.9
82.5°	110.7	113.8	124.0	125.1	124.0	114.8	95.3	84.1	71.8	65.6	65.6
85°	56.4	58.4	64.6	64.6	58.4	49.2	44.1	39.0	31.8	28.7	28.7
87.5°	15.4	15.4	19.5	16.4	13.3	12.3	6.2	5.1	2.1	1.0	1.0
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)