

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: P640762

Luminaire Tested: GWS-SA5E-740-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640762  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-740-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

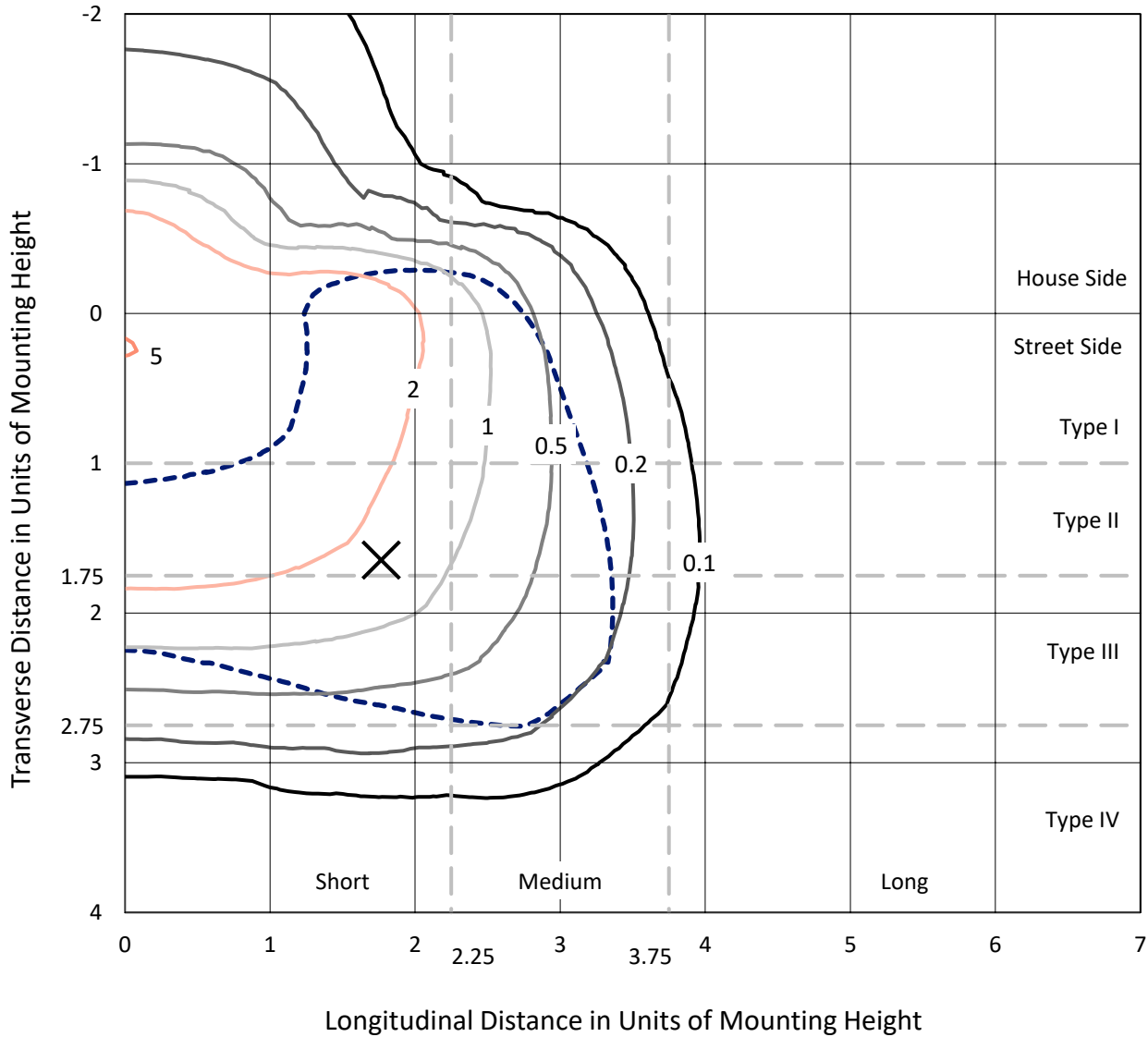
Lumens per Lamp: N/A  
Luminaire Lumens: 37219 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

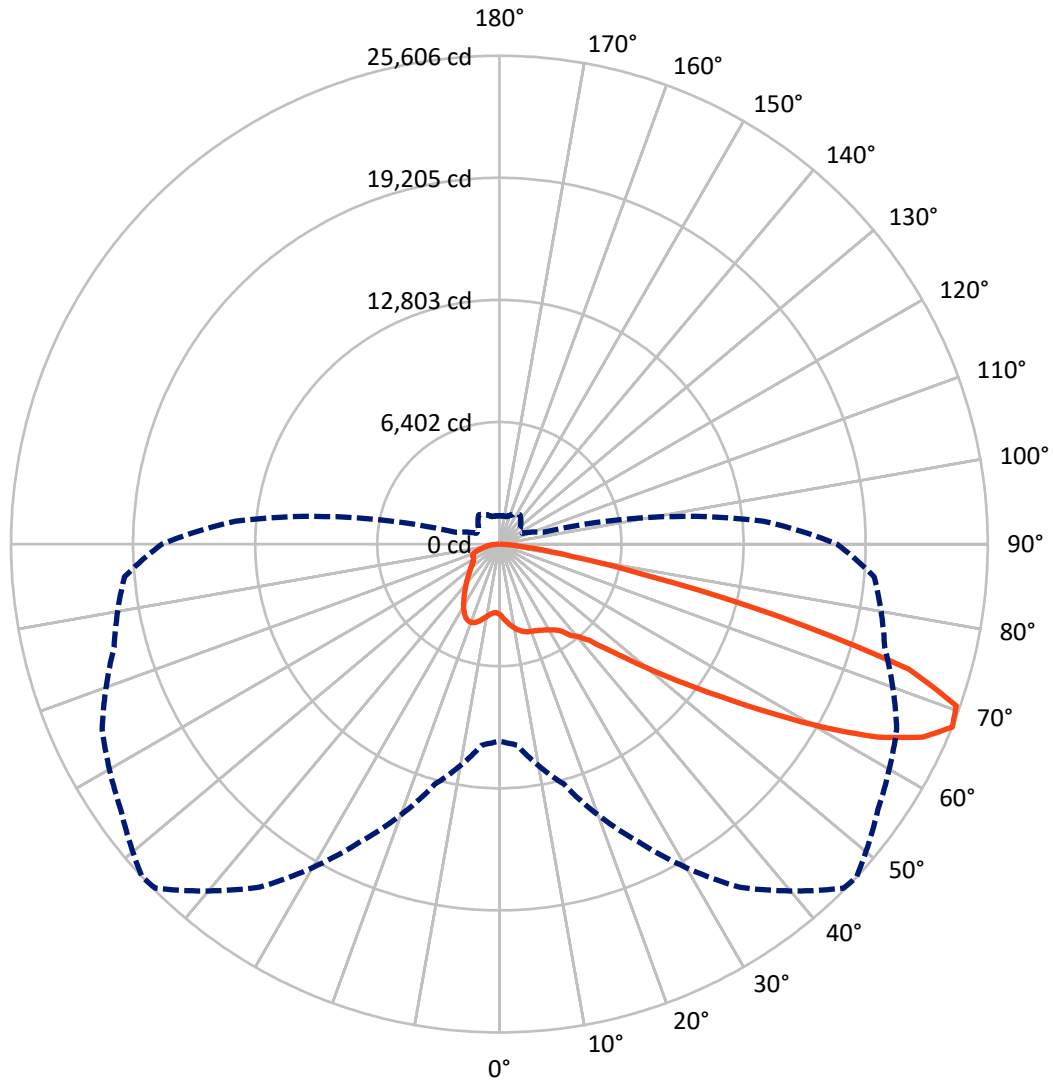
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8482.5	0.0	8482.5
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	28736.5	0.0	28736.5
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	37219.0	0.0	37219.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	377.1	1.0
10°-20°	1256.3	3.4
20°-30°	2135.4	5.7
30°-40°	3128.1	8.4
40°-50°	4766.0	12.8
50°-60°	8527.4	22.9
60°-70°	11378.9	30.6
70°-80°	5145.8	13.8
80°-90°	504.2	1.4
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°	37219.0	100.0
0°-180°	37219.0	100.0

**Coefficient of Utilization**



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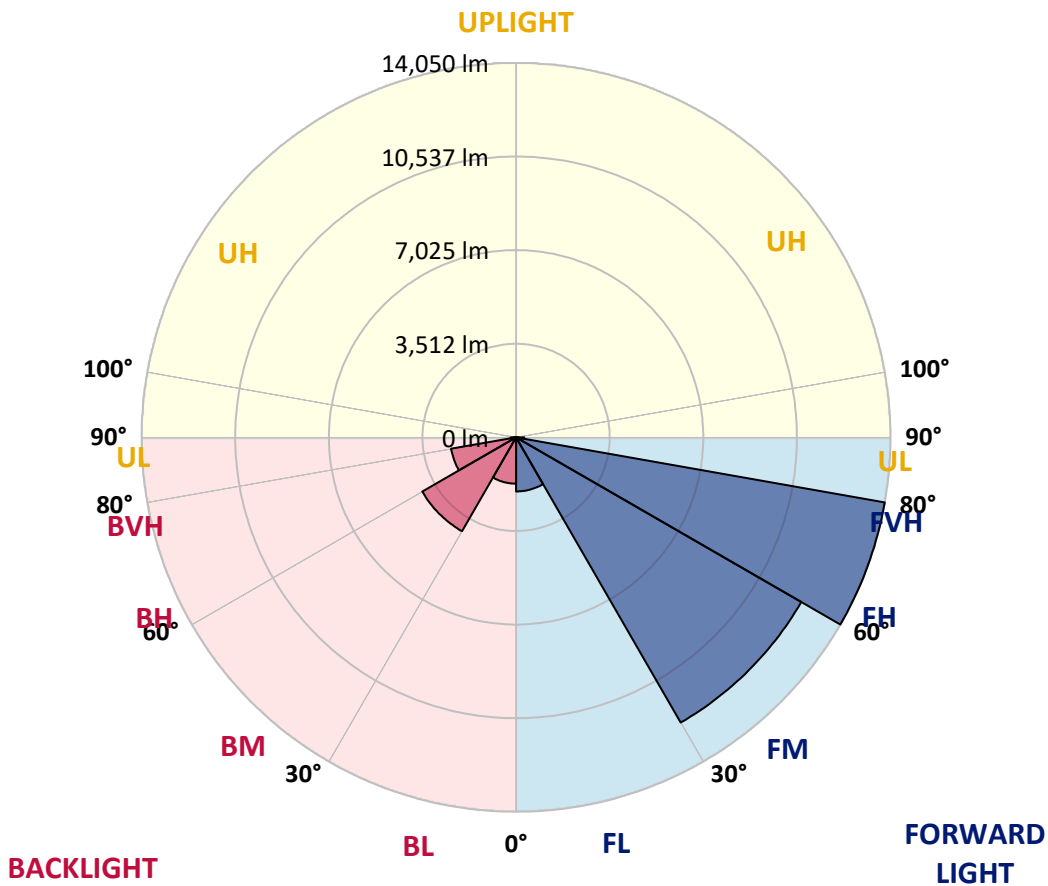
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2029.8	5.5			
FM (30°-60°)	12357.1	33.2			
FH (60°-80°)	14049.8	37.7			G5
FVH (80°-90°)	299.9	0.8			G3/500
BL (0°-30°)	1738.9	4.7	B3/2500		
BM (30°-60°)	4064.4	10.9	B3/5000		
BH (60°-80°)	2474.9	6.6	B3/2500		G3/2500
BVH (80°-90°)	204.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6
2.5°	3934.5	3947.9	3945.2	3923.7	3910.3	3886.0	3888.7	3851.1	3794.5	3756.9	3713.8
5°	4281.6	4303.2	4276.3	4241.3	4187.4	4109.4	4101.3	4015.2	3907.6	3832.2	3754.2
7.5°	4583.0	4596.5	4564.2	4505.0	4427.0	4322.0	4303.2	4200.9	4066.3	3947.9	3834.9
10°	4817.2	4833.3	4790.3	4712.2	4610.0	4505.0	4491.5	4386.6	4244.0	4104.0	3961.4
12.5°	5016.3	5021.7	4976.0	4871.0	4760.7	4653.0	4639.6	4542.7	4410.8	4268.2	4112.1
15°	5132.0	5134.7	5078.2	4962.5	4857.5	4763.4	4755.3	4671.9	4550.8	4416.2	4249.3
17.5°	5124.0	5129.4	5089.0	4986.7	4895.2	4838.7	4830.6	4776.8	4682.6	4561.5	4394.7
20°	5024.4	5029.8	5002.9	4935.6	4887.1	4871.0	4873.7	4857.5	4801.0	4701.5	4531.9
22.5°	4946.4	4954.4	4930.2	4881.8	4876.4	4914.1	4922.1	4930.2	4903.3	4814.5	4650.3
25°	4984.0	4997.5	4959.8	4892.5	4903.3	4986.7	5002.9	5029.8	5008.2	4932.9	4790.3
27.5°	5245.1	5253.1	5156.3	5019.0	4986.7	5075.5	5099.7	5142.8	5126.7	5056.7	4946.4
30°	5850.6	5845.2	5638.0	5301.6	5167.0	5202.0	5220.9	5282.7	5288.1	5242.4	5137.4
32.5°	6703.7	6676.8	6356.5	5821.0	5430.8	5344.6	5366.2	5449.6	5511.5	5463.1	5320.4
35°	7605.2	7581.0	7228.5	6601.4	5917.9	5619.1	5594.9	5659.5	5753.7	5619.1	5414.6
37.5°	8463.7	8426.0	8065.4	7290.4	6518.0	6100.9	6065.9	6001.3	5944.8	5686.4	5530.3
40°	9416.4	9373.3	9058.4	8181.1	7180.0	6469.5	6380.7	6125.1	6073.9	5909.8	5831.7
42.5°	10433.6	10433.6	10172.6	9308.7	7979.3	6997.0	6881.3	6496.5	6550.3	6442.6	6351.1
45°	11450.9	11480.5	11273.3	10444.4	9047.7	7992.7	7807.1	7260.8	7389.9	7341.5	7295.7
47.5°	12317.4	12374.0	12333.6	11604.3	10355.6	9203.8	8921.2	8353.4	8630.6	8746.3	8875.4
50°	13251.3	13313.2	13272.8	12984.8	11886.9	10670.5	10417.5	9830.8	10307.1	10654.3	11076.8
52.5°	14637.2	14726.0	14389.6	14279.3	13746.4	12336.3	12110.2	11442.8	12306.7	12882.6	13824.5
55°	15807.9	15805.2	15686.8	15939.7	15743.3	14373.5	14123.2	13517.7	14621.1	15232.0	16609.8
57.5°	16351.5	16416.1	16822.4	17538.3	17931.2	16862.8	16623.3	16004.3	17105.0	17422.6	18910.8
60°	16631.4	16712.1	17497.9	18913.5	19971.1	19580.9	19486.7	18698.2	19317.1	19279.5	20851.1
62.5°	16238.5	16399.9	17662.1	19543.2	21427.0	22312.4	22282.8	21090.6	21198.3	20829.6	22054.1
65°	14435.4	14610.3	16591.0	19228.3	22258.6	24390.0	24398.1	23257.0	22643.4	21583.1	21852.2
67.5°	10323.3	10573.6	13022.5	17204.6	21965.3	25512.2	25606.4	24239.3	22982.5	20915.7	19731.6
70°	5627.2	5810.2	7729.0	12505.8	19322.5	25243.1	25418.0	23765.6	21486.2	18092.7	15188.9
72.5°	2556.6	2615.8	3595.4	6862.5	13200.1	21728.4	22460.4	21209.0	17645.9	13364.3	9658.6
75°	1170.7	1197.6	1566.3	3283.2	6897.4	14540.3	15054.4	15797.1	12279.8	8439.5	5035.2
77.5°	734.7	742.8	890.8	1501.7	3439.3	7258.1	7799.0	9405.6	7190.8	4176.7	2104.5
80°	433.3	441.4	554.4	812.7	1614.7	3320.9	3834.9	3719.2	3380.1	1803.1	958.1
82.5°	218.0	226.1	320.2	462.9	880.0	1321.4	1555.5	1563.6	1259.5	976.9	540.9
85°	78.0	80.7	105.0	183.0	374.1	436.0	487.1	594.7	616.3	567.8	261.0
87.5°	0.0	0.0	2.7	5.4	10.8	43.1	45.7	86.1	180.3	201.8	105.0
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°	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6	3689.6
2.5°	3700.3	3660.0	3646.5	3633.1	3611.5	3603.5	3587.3	3571.2	3571.2	3555.0	3546.9
5°	3719.2	3665.4	3630.4	3614.2	3600.8	3608.8	3608.8	3614.2	3633.1	3622.3	3627.7
7.5°	3786.5	3724.6	3676.1	3662.7	3662.7	3695.0	3716.5	3743.4	3778.4	3783.8	3783.8
10°	3904.9	3832.2	3781.1	3773.0	3786.5	3832.2	3864.5	3896.8	3939.9	3942.5	3947.9
12.5°	4034.0	3961.4	3910.3	3921.0	3934.5	3993.7	4028.7	4055.6	4098.6	4098.6	4095.9
15°	4168.6	4087.9	4044.8	4066.3	4106.7	4174.0	4179.4	4182.1	4203.6	4198.2	4195.5
17.5°	4308.5	4222.4	4190.1	4222.4	4265.5	4297.8	4270.9	4233.2	4225.1	4214.4	4209.0
20°	4445.8	4357.0	4343.5	4367.8	4381.2	4354.3	4270.9	4200.9	4168.6	4152.5	4147.1
22.5°	4564.2	4488.9	4480.8	4480.8	4413.5	4319.3	4195.5	4101.3	4058.3	4036.7	4031.4
25°	4704.1	4634.2	4620.7	4548.1	4375.8	4203.6	4036.7	3950.6	3915.6	3904.9	3907.6
27.5°	4868.3	4819.9	4776.8	4569.6	4268.2	3999.1	3810.7	3773.0	3759.6	3773.0	3781.1
30°	5070.1	5021.7	4924.8	4542.7	4095.9	3732.6	3552.3	3549.6	3590.0	3625.0	3630.4
32.5°	5234.3	5212.8	5054.0	4456.6	3853.7	3439.3	3285.9	3296.7	3369.3	3417.8	3425.8
35°	5363.5	5398.5	5161.6	4313.9	3565.8	3162.1	3041.0	3046.4	3086.8	3154.0	3156.7
37.5°	5546.5	5664.9	5258.5	4095.9	3234.8	2922.6	2812.3	2771.9	2766.5	2785.4	2790.7
40°	5915.2	6092.8	5328.5	3778.4	2914.5	2707.3	2583.5	2505.5	2438.2	2387.1	2370.9
42.5°	6472.2	6676.8	5368.9	3393.6	2629.3	2494.7	2354.8	2255.2	2136.8	2029.1	1991.5
45°	7494.9	7562.2	5368.9	2984.5	2376.3	2295.6	2155.6	2037.2	1886.5	1760.0	1733.1
47.5°	9131.1	8915.8	5374.2	2588.9	2152.9	2120.6	1999.5	1865.0	1698.1	1593.2	1577.0
50°	11596.2	10840.0	5484.6	2260.6	1967.2	1972.6	1883.8	1735.8	1585.1	1507.0	1493.6
52.5°	14389.6	13210.9	5780.6	2018.4	1811.2	1851.5	1803.1	1660.4	1525.9	1458.6	1445.2
55°	17016.2	15390.7	6033.6	1846.1	1679.3	1749.3	1746.6	1614.7	1493.6	1426.3	1418.2
57.5°	19249.9	16884.3	5995.9	1706.2	1566.3	1655.1	1695.4	1585.1	1472.1	1415.6	1407.5
60°	20638.5	17675.5	5460.4	1577.0	1480.1	1587.8	1665.8	1577.0	1482.8	1469.4	1472.1
62.5°	21241.3	17530.2	4432.3	1480.1	1423.6	1555.5	1698.1	1633.5	1582.4	1614.7	1633.5
65°	20304.8	16281.5	3261.7	1407.5	1369.8	1563.6	1773.5	1722.3	1582.4	1603.9	1612.0
67.5°	17705.1	13859.5	2357.5	1334.8	1302.5	1587.8	1881.1	1708.9	1490.9	1490.9	1474.8
70°	12758.8	9968.1	1711.6	1262.2	1235.2	1552.8	1886.5	1617.4	1385.9	1377.9	1337.5
72.5°	7677.9	5880.2	1334.8	1181.4	1133.0	1377.9	1768.1	1509.7	1283.7	1216.4	1168.0
75°	3988.3	2946.8	1119.5	1092.6	971.5	1168.0	1617.4	1342.9	1098.0	1038.8	1011.9
77.5°	1708.9	1377.9	960.7	974.2	807.3	982.3	1305.2	1162.6	974.2	898.8	874.6
80°	842.3	783.1	758.9	780.4	645.9	758.9	1124.9	1017.3	826.2	740.1	705.1
82.5°	481.7	457.5	546.3	554.4	460.2	635.1	950.0	861.2	683.6	589.4	532.8
85°	223.4	239.5	331.0	333.7	285.3	436.0	621.7	484.4	363.3	301.4	288.0
87.5°	88.8	105.0	145.3	142.6	83.4	80.7	53.8	29.6	24.2	21.5	18.8
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)