

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: P640828

Luminaire Tested: GWS-SA5E-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640828  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-760-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

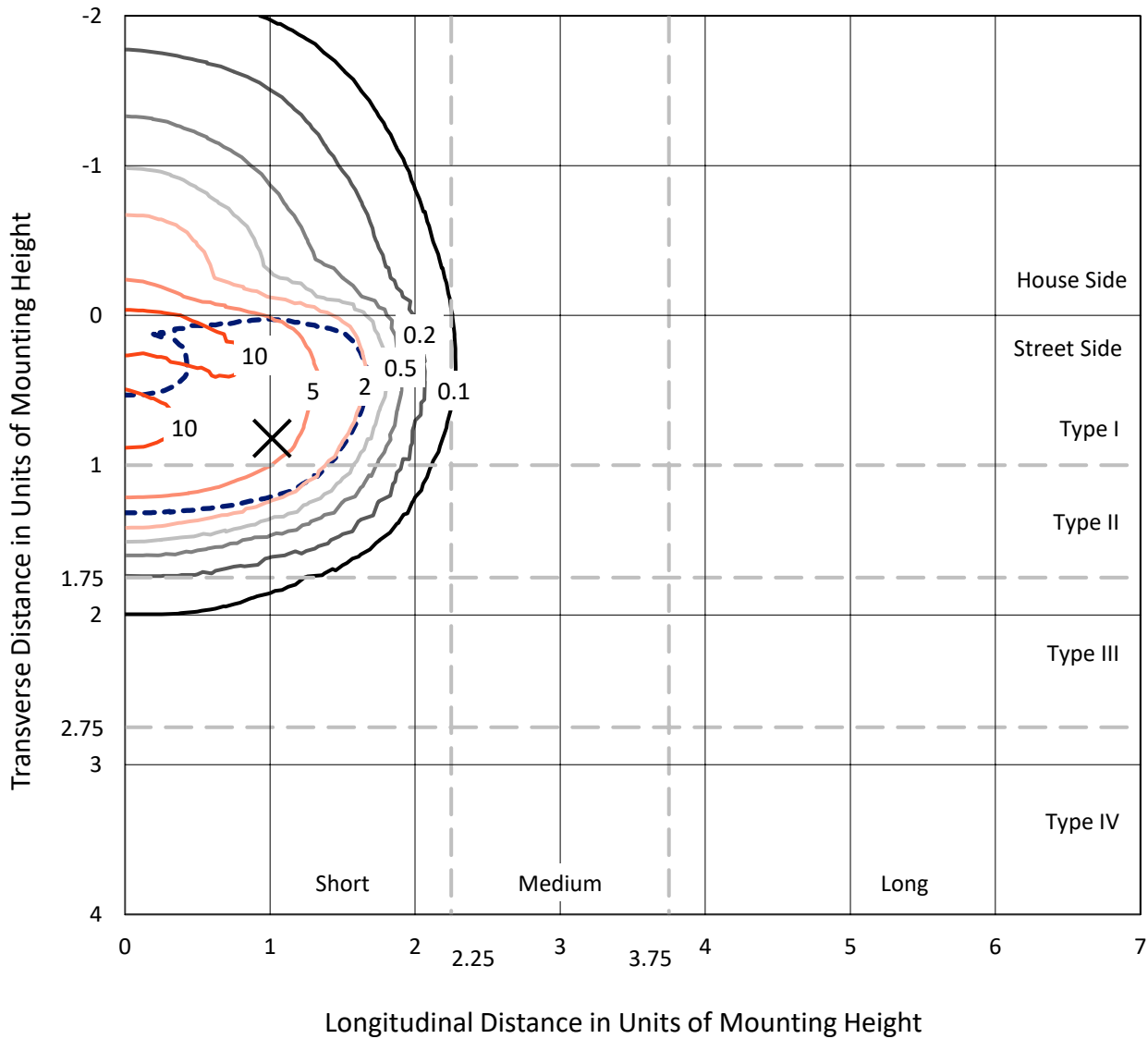
Lumens per Lamp: N/A  
Luminaire Lumens: 34359.9 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

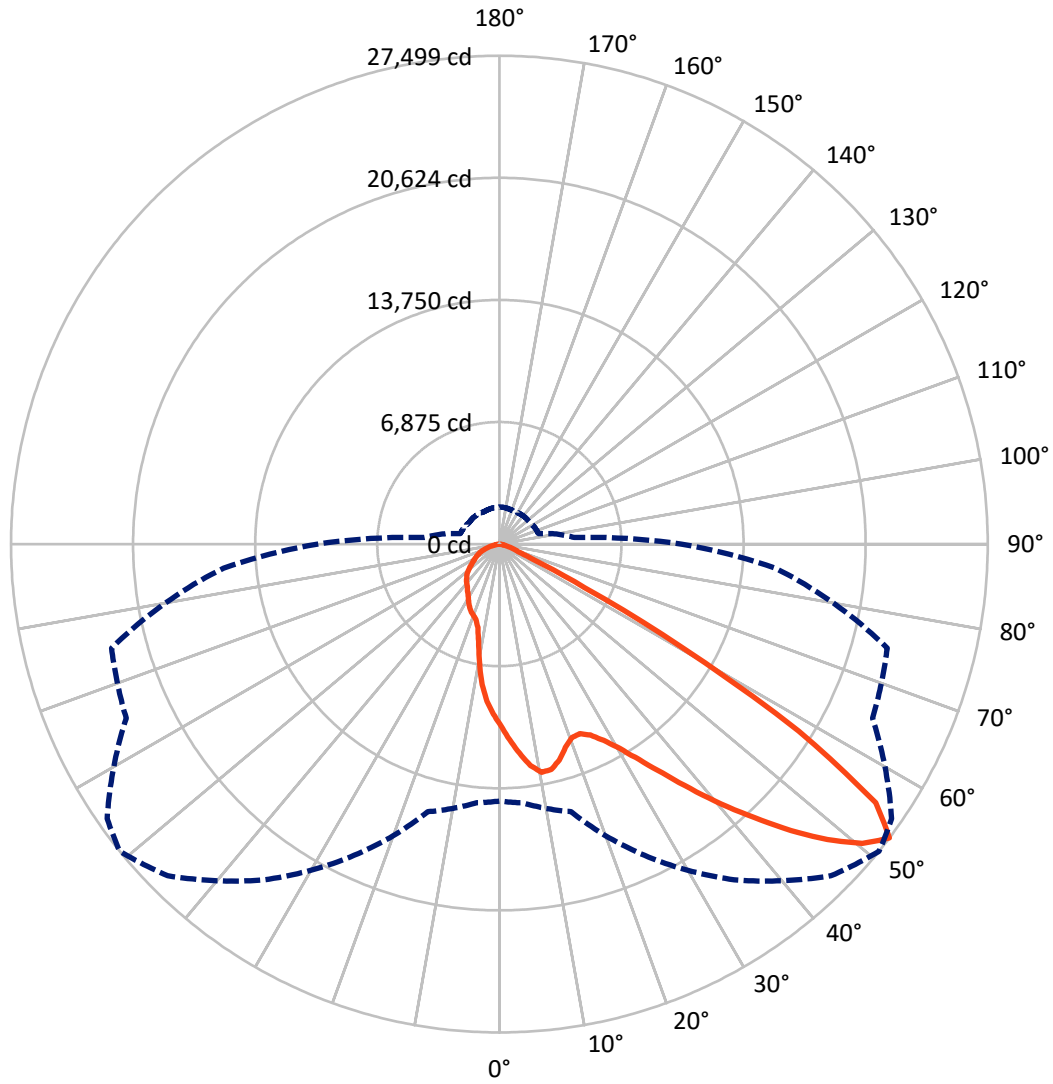
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6694.7	0.0	6694.7
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	27665.2	0.0	27665.2
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	34359.9	0.0	34359.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	954.7	2.8
10°-20°	2480.6	7.2
20°-30°	4033.2	11.7
30°-40°	6391.8	18.6
40°-50°	9640.2	28.1
50°-60°	8339.5	24.3
60°-70°	1890.6	5.5
70°-80°	557.5	1.6
80°-90°	71.8	0.2
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°	34359.9	100.0
0°-180°	34359.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P640828

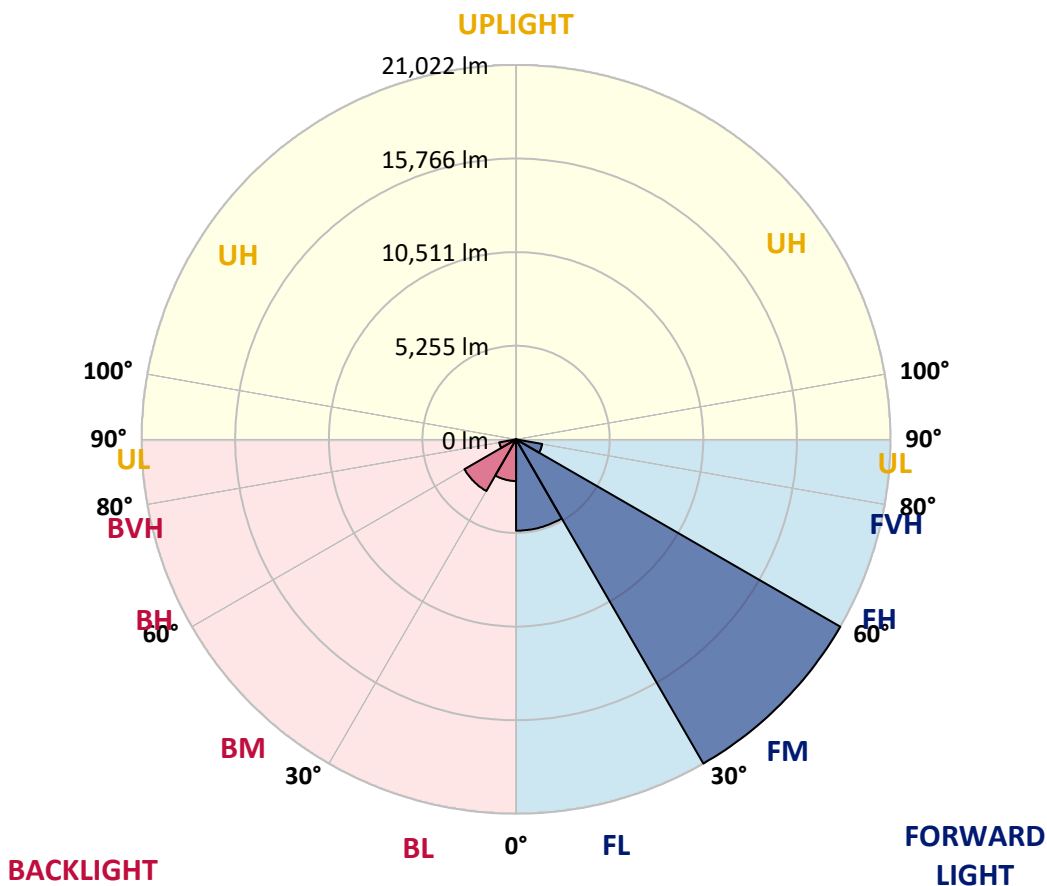
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5128.3	14.9			
FM (30°-60°)	21021.9	61.2			
FH (60°-80°)	1487.9	4.3			G1/1800
FVH (80°-90°)	27.1	0.1			G1/100
BL (0°-30°)	2340.2	6.8	B3/2500		
BM (30°-60°)	3349.6	9.7	B3/5000		
BH (60°-80°)	960.2	2.8	B2/1000		G2/1000
BVH (80°-90°)	44.7	0.1			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	10230.7	10230.7	10230.7	10230.7	10230.7	10230.7	10230.7	10230.7	10230.7	10230.7	10230.7
2.5°	11400.9	11466.0	11365.6	11327.6	11265.1	11156.5	11031.6	10996.3	10727.5	10551.0	10352.8
5°	12546.7	12582.0	12500.5	12419.1	12264.3	12071.5	11829.9	11778.3	11289.6	10885.0	10464.2
7.5°	12801.9	12788.3	12858.9	12905.1	12886.1	12810.0	12595.5	12495.1	11911.3	11270.6	10648.8
10°	11791.9	11715.8	11976.5	12286.0	12658.0	13087.0	13062.6	13054.4	12546.7	11789.1	10885.0
12.5°	10453.3	10415.3	10627.1	11015.3	11718.6	12668.9	13024.5	13301.5	13119.6	12283.3	11148.4
15°	9687.6	9674.1	9818.0	10097.6	10656.9	11857.0	12617.3	13165.7	13611.0	12812.8	11428.0
17.5°	9549.2	9557.3	9606.2	9766.4	10168.2	11156.5	12036.2	12801.9	13993.8	13393.8	11778.3
20°	9953.7	10008.0	9923.8	9948.3	10165.5	10904.0	11639.8	12435.4	14238.2	13977.6	12155.7
22.5°	10852.4	10833.4	10648.8	10540.2	10542.9	11058.8	11596.4	12264.3	14398.4	14545.0	12497.8
25°	11870.6	11848.9	11629.0	11387.3	11235.3	11479.6	11908.6	12446.2	14542.3	15063.6	12772.0
27.5°	13073.4	13005.5	12761.2	12451.6	12115.0	12220.9	12511.4	12937.7	14764.9	15574.1	12953.9
30°	14238.2	14316.9	13966.7	13600.1	13244.5	13179.3	13347.6	13733.2	15218.4	16171.4	13171.2
32.5°	15783.1	15756.0	15367.7	14889.8	14382.1	14333.2	14466.3	14819.2	16032.9	16996.8	13502.4
35°	17653.9	17659.3	17108.1	16461.9	15739.7	15609.4	15832.0	16174.1	17246.6	18115.4	14026.4
37.5°	19597.9	19589.8	19109.2	18376.1	17390.5	17205.9	17461.1	17716.3	18764.3	19638.6	14841.0
40°	20960.9	21015.2	20789.8	20404.3	19470.3	19019.6	19244.9	19421.4	20415.2	21430.6	15913.4
42.5°	21734.7	21816.2	21865.0	22095.8	21604.4	21123.8	21042.4	21134.7	21889.5	23095.0	16920.8
45°	21900.3	22008.9	22364.6	23219.9	23410.0	23274.2	23008.1	22785.5	22989.1	24276.1	17580.5
47.5°	21170.0	21360.0	22120.3	23616.3	24726.8	25153.1	24857.1	24517.7	23624.5	24580.2	17512.7
50°	18275.6	18498.3	20211.5	22807.2	24914.1	26467.2	26494.4	25992.1	23548.4	23703.2	16660.1
52.5°	14469.0	14621.0	15601.2	19334.5	23076.0	26412.9	27499.0	26961.4	23181.9	22606.3	15593.1
55°	8647.7	8892.1	9807.1	12755.7	17977.0	23410.0	25723.3	25983.9	23002.7	21685.8	14865.4
57.5°	2918.8	3038.2	3912.5	5633.9	10594.5	17140.7	19874.8	20933.7	20882.2	20279.4	13445.4
60°	1390.2	1417.3	1593.8	2136.8	4241.1	8957.3	11764.7	12986.5	14099.7	14211.1	8365.4
62.5°	1058.9	1075.2	1164.8	1281.5	1705.1	3774.0	5392.3	6326.3	6758.0	5799.5	3046.4
65°	885.1	898.7	966.6	1039.9	1159.4	1634.5	2068.9	2386.6	2150.4	1675.2	1452.6
67.5°	738.5	749.4	801.0	879.7	961.2	1094.2	1148.5	1181.1	1238.1	1390.2	1335.9
70°	578.3	589.2	643.5	711.4	790.1	822.7	874.3	906.9	1020.9	1216.4	1211.0
72.5°	445.3	458.9	488.7	532.2	597.3	629.9	686.9	724.9	790.1	947.6	1012.7
75°	325.8	334.0	361.1	374.7	382.8	374.7	431.7	475.1	562.0	621.8	638.1
77.5°	133.0	149.3	143.9	143.9	171.1	206.4	236.2	263.4	323.1	358.4	361.1
80°	54.3	59.7	70.6	78.7	95.0	122.2	141.2	152.0	179.2	200.9	217.2
82.5°	32.6	35.3	40.7	43.4	54.3	70.6	81.5	89.6	111.3	133.0	141.2
85°	16.3	16.3	19.0	21.7	27.2	32.6	38.0	43.4	57.0	70.6	78.7
87.5°	2.7	2.7	2.7	5.4	8.1	10.9	13.6	16.3	19.0	21.7	27.2
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°	10230.7	10230.7	10230.7	10230.7	10230.7	10230.7	10230.7	10230.7	10230.7	10230.7	10230.7
2.5°	10236.1	10089.5	9918.4	9782.7	9625.2	9508.4	9342.8	9239.6	9141.9	9060.4	9000.7
5°	10246.9	9999.9	9644.2	9329.2	9003.4	8693.9	8376.2	8118.3	7887.5	7694.7	7678.4
7.5°	10309.4	9953.7	9397.1	8845.9	8210.6	7597.0	6983.3	6483.8	6103.6	5905.4	5864.7
10°	10415.3	9948.3	9144.6	8264.9	7181.6	6193.2	5465.6	5085.5	4865.5	4786.8	4759.6
12.5°	10526.6	9934.7	8821.5	7444.9	5940.7	5074.6	4675.5	4629.3	4670.0	4675.5	4672.8
15°	10662.4	9926.6	8414.2	6483.8	5033.9	4556.0	4583.2	4680.9	4775.9	4797.7	4797.7
17.5°	10828.0	9907.6	7860.3	5544.3	4466.4	4455.5	4599.5	4729.8	4819.4	4835.7	4835.7
20°	11001.8	9858.7	7178.8	4778.7	4235.6	4393.1	4547.9	4648.3	4710.8	4732.5	4735.2
22.5°	11121.2	9728.4	6394.2	4211.2	4091.7	4273.6	4385.0	4488.1	4488.1	4433.8	4417.5
25°	11145.7	9448.7	5544.3	3822.9	3920.7	4089.0	4203.0	4143.3	4032.0	3988.5	3985.8
27.5°	11056.1	9041.4	4705.3	3546.0	3714.3	3882.7	3863.6	3776.8	3727.9	3684.4	3700.7
30°	10947.5	8552.7	3977.7	3317.9	3475.4	3641.0	3575.8	3546.0	3510.7	3461.8	3472.7
32.5°	10874.1	8007.0	3418.4	3141.4	3315.2	3342.3	3388.5	3385.8	3353.2	3260.9	3255.5
35°	10895.9	7455.8	3043.7	2997.5	3182.1	3171.3	3258.2	3241.9	3016.5	2888.9	2880.8
37.5°	11069.6	6926.3	2823.7	2883.5	2970.4	3038.2	3114.3	2918.8	2840.0	2758.6	2764.0
40°	11400.9	6434.9	2704.3	2821.0	2842.8	2943.2	2766.7	2764.0	2728.7	2655.4	2652.7
42.5°	11775.6	6019.5	2622.8	2791.2	2761.3	2780.3	2593.0	2614.7	2612.0	2565.8	2552.2
45°	12003.6	5636.6	2557.7	2679.8	2688.0	2497.9	2440.9	2465.3	2478.9	2454.5	2451.8
47.5°	11767.4	5196.8	2489.8	2508.8	2579.4	2370.3	2299.7	2302.4	2326.9	2329.6	2318.7
50°	11104.9	4705.3	2408.3	2362.2	2316.0	2237.3	2172.1	2158.5	2183.0	2207.4	2215.6
52.5°	10249.7	4235.6	2272.6	2202.0	2093.4	2093.4	2063.5	2020.1	2052.6	2085.2	2096.1
55°	9622.5	3888.1	2079.8	2001.1	1881.6	1922.3	1916.9	1878.9	1922.3	1946.8	1954.9
57.5°	8338.2	3125.1	1830.0	1805.6	1705.1	1754.0	1764.8	1716.0	1694.2	1699.7	1707.8
60°	4949.7	2017.4	1650.8	1648.1	1558.5	1615.5	1648.1	1599.2	1534.1	1542.2	1553.1
62.5°	2221.0	1542.2	1425.4	1414.6	1411.9	1485.2	1520.5	1474.3	1382.0	1390.2	1401.0
65°	1398.3	1333.1	1238.1	1238.1	1281.5	1344.0	1371.1	1333.1	1227.2	1213.7	1224.5
67.5°	1297.8	1240.8	1143.1	1124.1	1145.8	1197.4	1200.1	1126.8	1064.3	1053.5	1053.5
70°	1164.8	1121.4	1026.3	988.3	980.2	977.5	969.3	950.3	909.6	898.7	904.1
72.5°	963.9	934.0	874.3	833.5	811.8	809.1	776.5	760.2	724.9	719.5	716.8
75°	638.1	646.2	646.2	640.8	621.8	613.6	578.3	562.0	521.3	505.0	502.3
77.5°	377.4	385.6	396.4	399.1	396.4	396.4	363.8	344.8	304.1	282.4	276.9
80°	230.8	236.2	241.6	249.8	238.9	230.8	200.9	181.9	162.9	149.3	146.6
82.5°	149.3	154.8	157.5	162.9	157.5	146.6	122.2	111.3	97.7	86.9	84.2
85°	84.2	86.9	92.3	92.3	84.2	76.0	62.4	54.3	46.2	40.7	40.7
87.5°	29.9	29.9	29.9	32.6	27.2	24.4	16.3	10.9	8.1	8.1	8.1
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)