

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: P638793

Luminaire Tested: GWS-SA4F-750-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638793  
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-SA4F-750-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

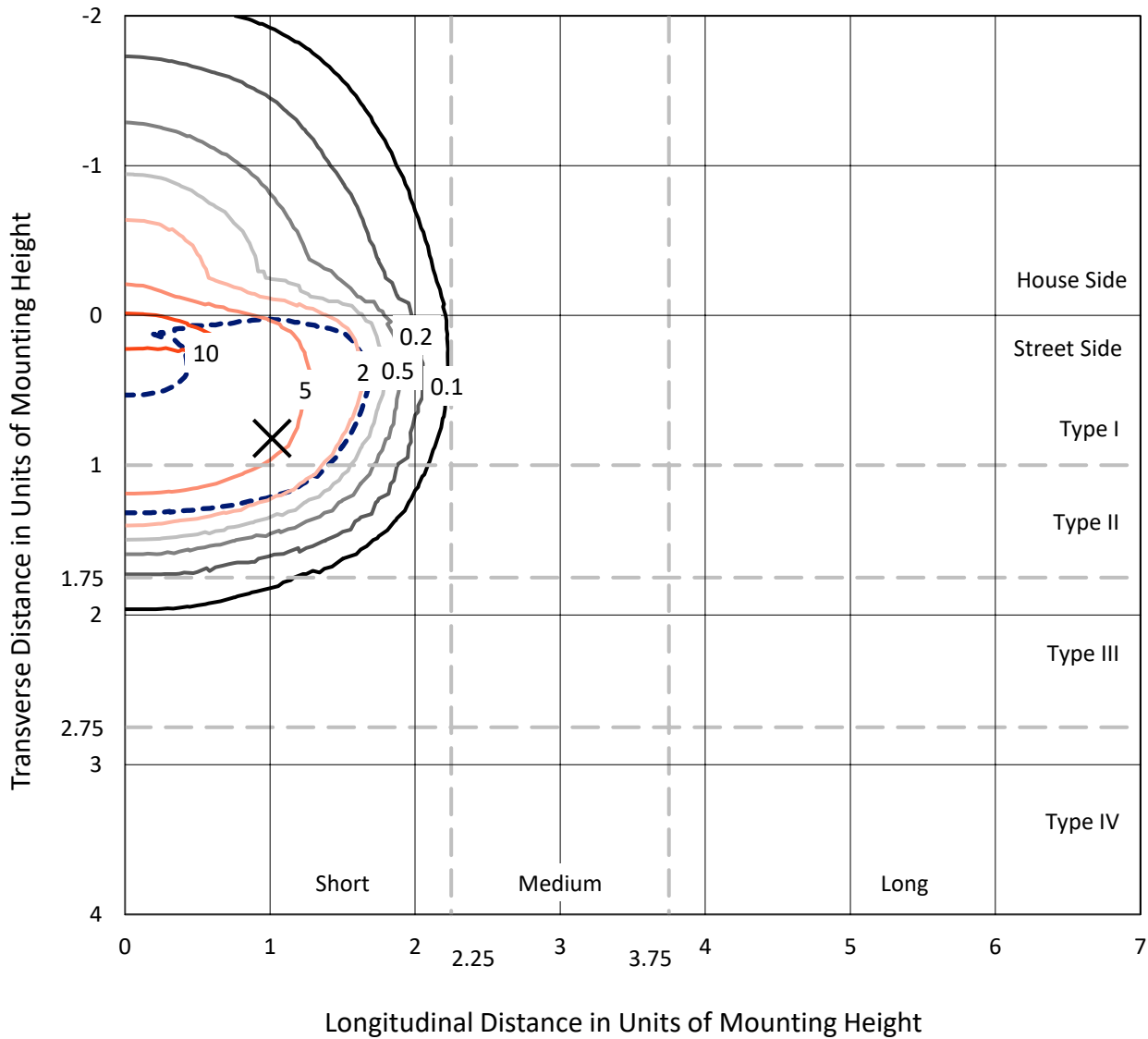
Lumens per Lamp: N/A  
Luminaire Lumens: 31574.5 lumens  
Efficiency: N/A  
Efficacy: 140.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

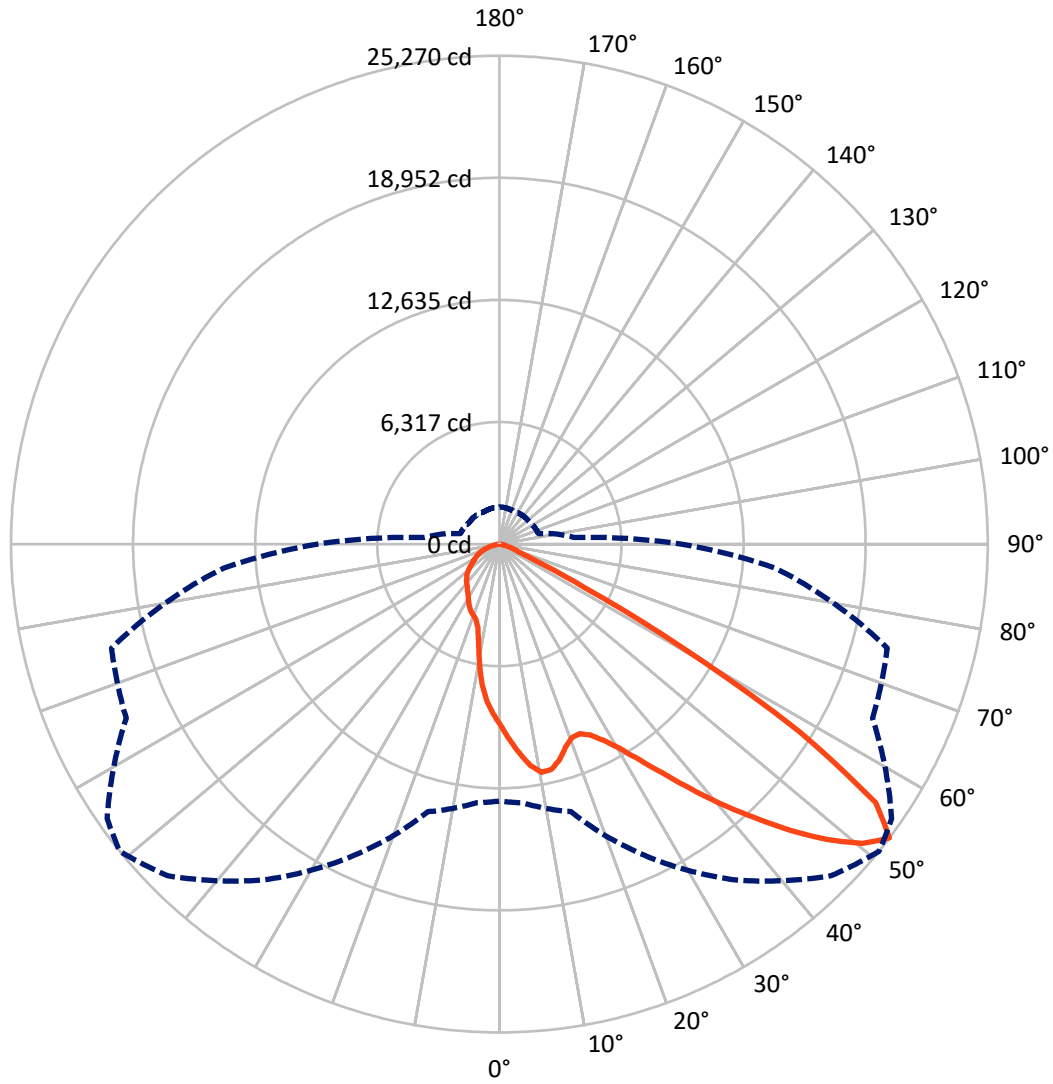
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P638793  
CATALOG NUMBER: GWS-SA4F-750-U-AFL-W-GRSWH

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWS-SA4F-750-U-AFL-W-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6152.0	0.0	6152.0
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	25422.5	0.0	25422.5
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	31574.5	0.0	31574.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	877.3	2.8
10°-20°	2279.5	7.2
20°-30°	3706.3	11.7
30°-40°	5873.6	18.6
40°-50°	8858.7	28.1
50°-60°	7663.5	24.3
60°-70°	1737.4	5.5
70°-80°	512.3	1.6
80°-90°	66.0	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°	31574.5	100.0
0°-180°	31574.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P638793

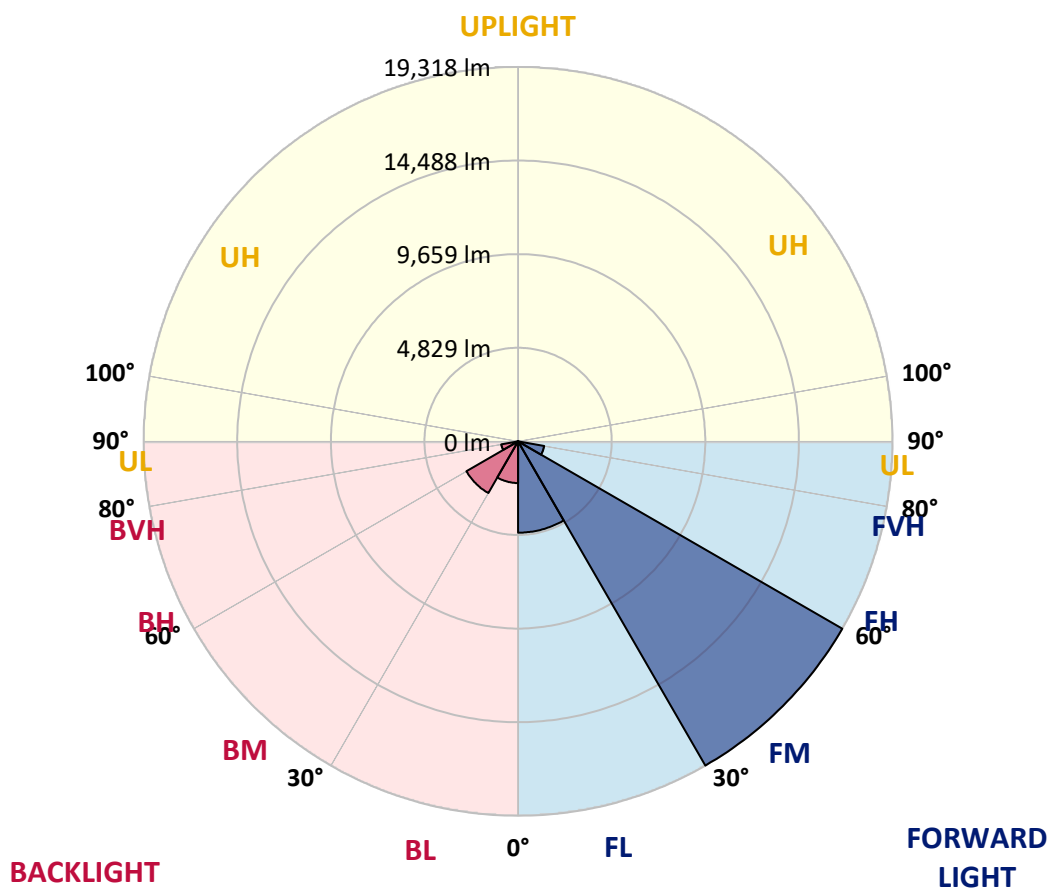
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4712.6	14.9			
FM (30°-60°)	19317.7	61.2			
FH (60°-80°)	1367.3	4.3			G1/1800
FVH (80°-90°)	24.9	0.1			G1/100
BL (0°-30°)	2150.5	6.8	B3/2500		
BM (30°-60°)	3078.1	9.7	B3/5000		
BH (60°-80°)	882.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	41.1	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





REPORT NUMBER: P638793

CATALOG NUMBER: GWS-SA4F-750-U-AFL-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	9401.3	9401.3	9401.3	9401.3	9401.3	9401.3	9401.3	9401.3	9401.3	9401.3	9401.3
2.5°	10476.7	10536.5	10444.2	10409.3	10351.9	10252.1	10137.3	10104.9	9857.9	9695.7	9513.6
5°	11529.6	11562.0	11487.2	11412.3	11270.1	11092.9	10870.9	10823.5	10374.4	10002.6	9615.9
7.5°	11764.1	11751.6	11816.5	11858.9	11841.5	11771.6	11574.5	11482.2	10945.7	10356.9	9785.5
10°	10836.0	10766.1	11005.6	11290.0	11631.9	12026.1	12003.6	11996.1	11529.6	10833.5	10002.6
12.5°	9605.9	9571.0	9765.6	10122.4	10768.6	11641.8	11968.7	12223.2	12056.0	11287.6	10244.6
15°	8902.3	8889.8	9022.1	9279.0	9793.0	10895.8	11594.4	12098.4	12507.6	11774.1	10501.6
17.5°	8775.0	8782.5	8827.4	8974.7	9343.9	10252.1	11060.5	11764.1	12859.4	12308.0	10823.5
20°	9146.8	9196.7	9119.4	9141.8	9341.4	10020.1	10696.2	11427.3	13084.0	12844.5	11170.3
22.5°	9972.7	9955.2	9785.5	9685.7	9688.2	10162.3	10656.3	11270.1	13231.2	13365.9	11484.7
25°	10908.3	10888.3	10686.2	10464.2	10324.5	10549.0	10943.2	11437.3	13363.4	13842.5	11736.7
27.5°	12013.6	11951.2	11726.7	11442.2	11132.9	11230.2	11497.1	11888.9	13568.0	14311.5	11903.8
30°	13084.0	13156.3	12834.5	12497.6	12170.8	12110.9	12265.6	12619.9	13984.7	14860.4	12103.4
32.5°	14503.7	14478.7	14121.9	13682.8	13216.2	13171.3	13293.6	13617.9	14733.2	15618.9	12407.8
35°	16222.7	16227.7	15721.2	15127.4	14463.7	14344.0	14548.6	14862.9	15848.5	16646.9	12889.4
37.5°	18009.2	18001.7	17560.1	16886.4	15980.7	15811.1	16045.6	16280.1	17243.2	18046.6	13637.9
40°	19261.7	19311.6	19104.5	18750.2	17891.9	17477.7	17684.8	17847.0	18760.2	19693.3	14623.4
42.5°	19972.8	20047.6	20092.5	20304.6	19853.0	19411.4	19336.5	19421.4	20115.0	21222.8	15549.1
45°	20125.0	20224.8	20551.6	21337.6	21512.2	21387.5	21143.0	20938.4	21125.5	22308.1	16155.4
47.5°	19453.8	19628.5	20327.1	21701.8	22722.3	23114.0	22842.1	22530.2	21709.3	22587.6	16093.0
50°	16794.1	16998.7	18573.1	20958.3	22894.5	24321.6	24346.6	23885.0	21639.5	21781.7	15309.6
52.5°	13296.1	13435.8	14336.5	17767.2	21205.3	24271.7	25269.7	24775.7	21302.6	20773.7	14329.0
55°	7946.7	8171.3	9012.1	11721.7	16519.6	21512.2	23638.0	23877.5	21138.0	19927.9	13660.3
57.5°	2682.2	2791.9	3595.4	5177.2	9735.6	15751.2	18263.7	19236.7	19189.3	18635.4	12355.4
60°	1277.5	1302.4	1464.6	1963.6	3897.2	8231.1	10811.0	11933.8	12956.7	13059.0	7687.2
62.5°	973.1	988.0	1070.4	1177.7	1566.9	3468.1	4955.1	5813.4	6210.2	5329.4	2799.4
65°	813.4	825.9	888.2	955.6	1065.4	1502.0	1901.2	2193.1	1976.1	1539.4	1334.8
67.5°	678.7	688.6	736.0	808.4	883.2	1005.5	1055.4	1085.3	1137.7	1277.5	1227.6
70°	531.4	541.4	591.3	653.7	726.1	756.0	803.4	833.3	938.1	1117.8	1112.8
72.5°	409.2	421.7	449.1	489.0	548.9	578.8	631.2	666.2	726.1	870.8	930.6
75°	299.4	306.9	331.8	344.3	351.8	344.3	396.7	436.6	516.5	571.4	586.3
77.5°	122.3	137.2	132.2	132.2	157.2	189.6	217.1	242.0	296.9	329.3	331.8
80°	49.9	54.9	64.9	72.4	87.3	112.3	129.7	139.7	164.7	184.6	199.6
82.5°	29.9	32.4	37.4	39.9	49.9	64.9	74.9	82.3	102.3	122.3	129.7
85°	15.0	15.0	17.5	20.0	25.0	29.9	34.9	39.9	52.4	64.9	72.4
87.5°	2.5	2.5	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	25.0
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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CATALOG NUMBER: GWS-SA4F-750-U-AFL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9401.3	9401.3	9401.3	9401.3	9401.3	9401.3	9401.3	9401.3	9401.3	9401.3	9401.3
2.5°	9406.3	9271.6	9114.4	8989.6	8844.9	8737.6	8585.4	8490.6	8400.8	8325.9	8271.1
5°	9416.3	9189.2	8862.4	8573.0	8273.5	7989.1	7697.2	7460.2	7248.1	7070.9	7056.0
7.5°	9473.7	9146.8	8635.3	8128.8	7545.0	6981.1	6417.2	5958.2	5608.8	5426.7	5389.3
10°	9571.0	9141.8	8403.3	7594.9	6599.4	5691.2	5022.5	4673.2	4471.1	4398.8	4373.8
12.5°	9673.3	9129.3	8106.4	6841.4	5459.1	4663.2	4296.5	4254.0	4291.5	4296.5	4294.0
15°	9798.0	9121.9	7732.1	5958.2	4625.8	4186.7	4211.6	4301.4	4388.8	4408.7	4408.7
17.5°	9950.2	9104.4	7223.1	5094.9	4104.3	4094.4	4226.6	4346.4	4428.7	4443.7	4443.7
20°	10109.9	9059.5	6596.9	4391.3	3892.3	4037.0	4179.2	4271.5	4328.9	4348.9	4351.3
22.5°	10219.7	8939.7	5875.8	3869.8	3760.0	3927.2	4029.5	4124.3	4124.3	4074.4	4059.4
25°	10242.1	8682.7	5094.9	3513.0	3602.8	3757.5	3862.3	3807.4	3705.1	3665.2	3662.7
27.5°	10159.8	8308.5	4323.9	3258.5	3413.2	3567.9	3550.4	3470.6	3425.7	3385.8	3400.7
30°	10060.0	7859.4	3655.2	3048.9	3193.6	3345.8	3286.0	3258.5	3226.1	3181.2	3191.2
32.5°	9992.6	7357.9	3141.3	2886.8	3046.4	3071.4	3113.8	3111.3	3081.4	2996.5	2991.6
35°	10012.6	6851.4	2796.9	2754.5	2924.2	2914.2	2994.0	2979.1	2772.0	2654.7	2647.2
37.5°	10172.3	6364.8	2594.8	2649.7	2729.6	2791.9	2861.8	2682.2	2609.8	2535.0	2539.9
40°	10476.7	5913.2	2485.1	2592.3	2612.3	2704.6	2542.4	2539.9	2507.5	2440.1	2437.7
42.5°	10821.0	5531.5	2410.2	2564.9	2537.5	2554.9	2382.8	2402.7	2400.2	2357.8	2345.3
45°	11030.6	5179.7	2350.3	2462.6	2470.1	2295.4	2243.0	2265.5	2278.0	2255.5	2253.0
47.5°	10813.5	4775.5	2288.0	2305.4	2370.3	2178.2	2113.3	2115.8	2138.2	2140.7	2130.8
50°	10204.7	4323.9	2213.1	2170.7	2128.3	2055.9	1996.0	1983.6	2006.0	2028.5	2036.0
52.5°	9418.8	3892.3	2088.3	2023.5	1923.7	1923.7	1896.2	1856.3	1886.2	1916.2	1926.2
55°	8842.4	3572.9	1911.2	1838.8	1729.1	1766.5	1761.5	1726.6	1766.5	1788.9	1796.4
57.5°	7662.3	2871.8	1681.7	1659.2	1566.9	1611.8	1621.8	1576.9	1556.9	1561.9	1569.4
60°	4548.5	1853.8	1517.0	1514.5	1432.2	1484.5	1514.5	1469.6	1409.7	1417.2	1427.2
62.5°	2040.9	1417.2	1309.9	1299.9	1297.4	1364.8	1397.2	1354.8	1270.0	1277.5	1287.4
65°	1284.9	1225.1	1137.7	1137.7	1177.7	1235.0	1260.0	1225.1	1127.8	1115.3	1125.3
67.5°	1192.6	1140.2	1050.4	1032.9	1052.9	1100.3	1102.8	1035.4	978.1	968.1	968.1
70°	1070.4	1030.5	943.1	908.2	900.7	898.2	890.7	873.3	835.8	825.9	830.8
72.5°	885.7	858.3	803.4	766.0	746.0	743.5	713.6	698.6	666.2	661.2	658.7
75°	586.3	593.8	593.8	588.8	571.4	563.9	531.4	516.5	479.0	464.1	461.6
77.5°	346.8	354.3	364.3	366.8	364.3	364.3	334.3	316.9	279.4	259.5	254.5
80°	212.1	217.1	222.1	229.5	219.6	212.1	184.6	167.2	149.7	137.2	134.7
82.5°	137.2	142.2	144.7	149.7	144.7	134.7	112.3	102.3	89.8	79.8	77.3
85°	77.3	79.8	84.8	84.8	77.3	69.9	57.4	49.9	42.4	37.4	37.4
87.5°	27.4	27.4	27.4	29.9	25.0	22.5	15.0	10.0	7.5	7.5	7.5
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)