

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: P638792

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
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-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26212.7 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

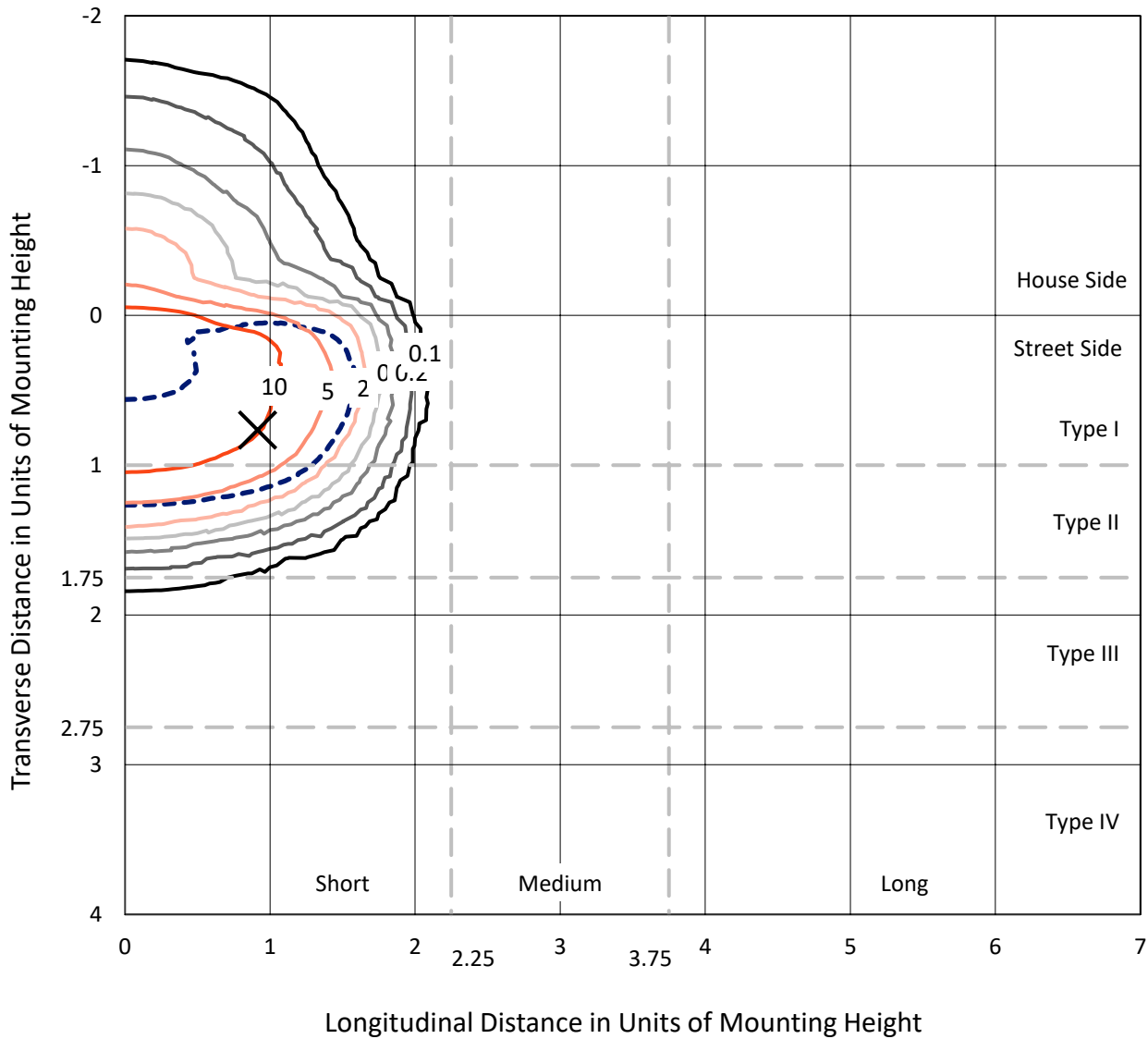
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

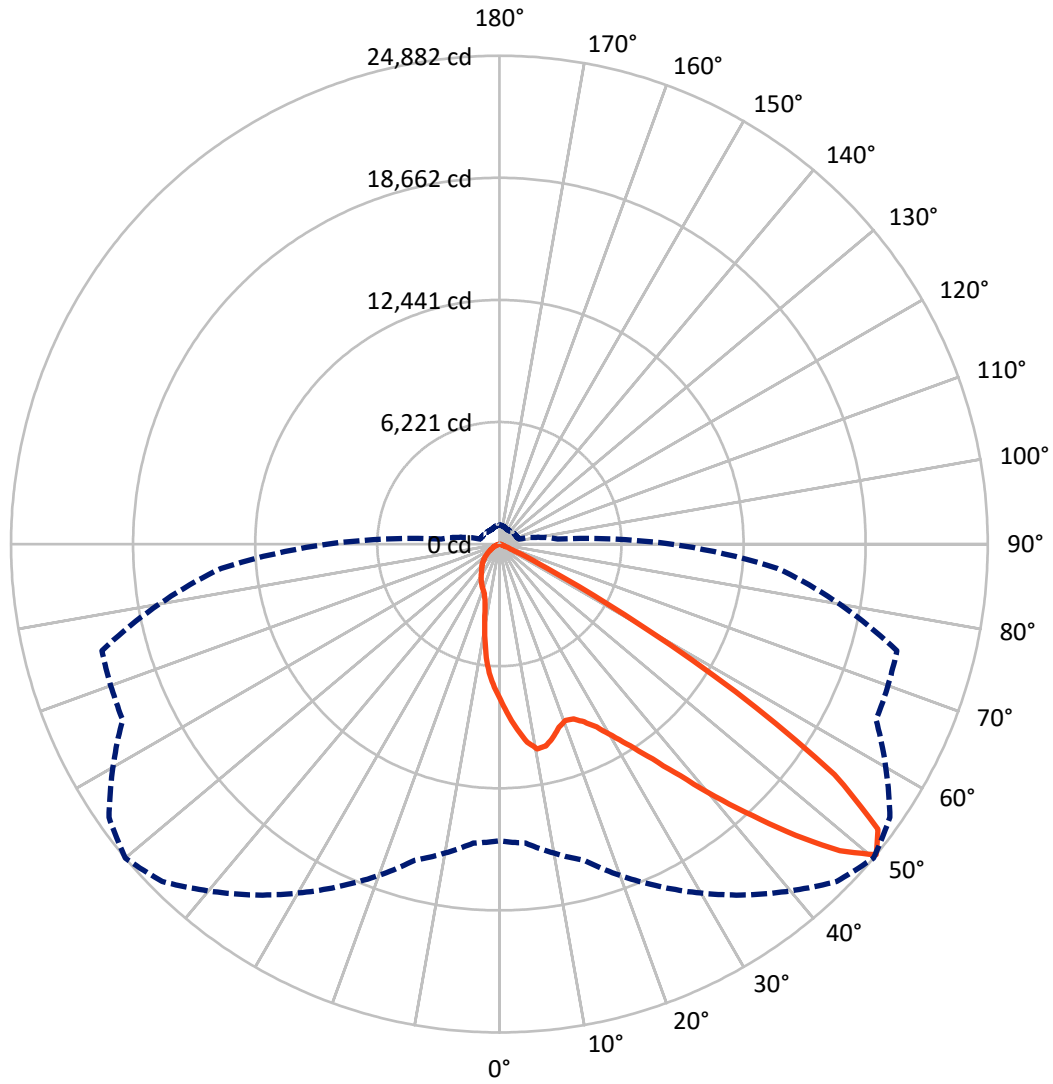
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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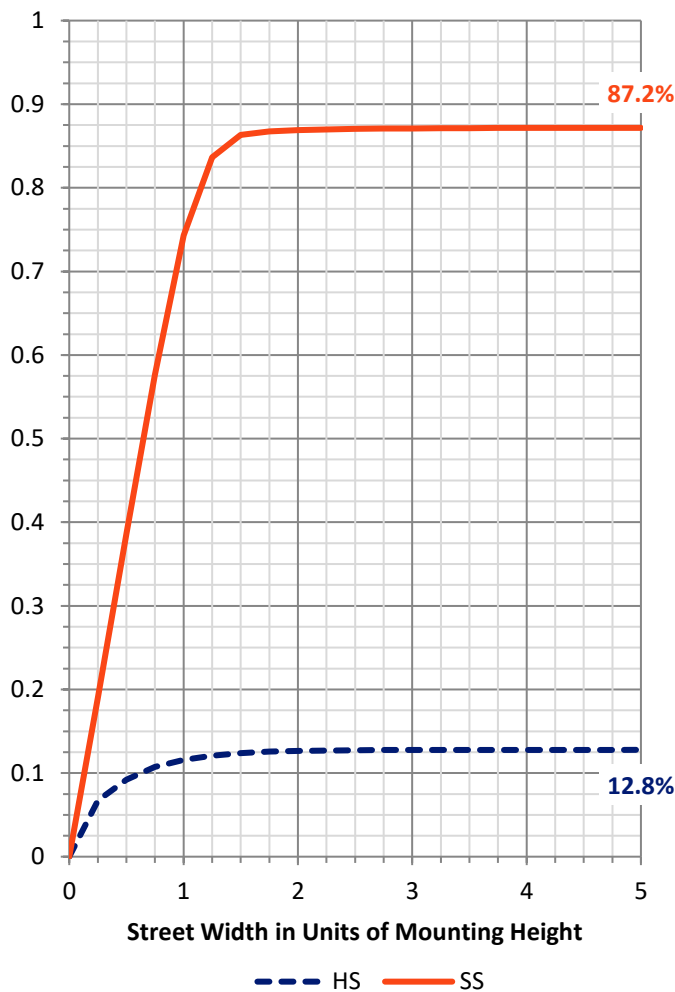
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3367.9	0.0	3367.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	22844.8	0.0	22844.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	26212.7	0.0	26212.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.7	2.8
10°-20°	1900.7	7.3
20°-30°	3136.9	12.0
30°-40°	5176.5	19.7
40°-50°	8190.4	31.2
50°-60°	6201.0	23.7
60°-70°	776.1	3.0
70°-80°	87.8	0.3
80°-90°	6.7	0.0
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°	26212.7	100.0
0°-180°	26212.7	100.0

Coefficient of Utilization



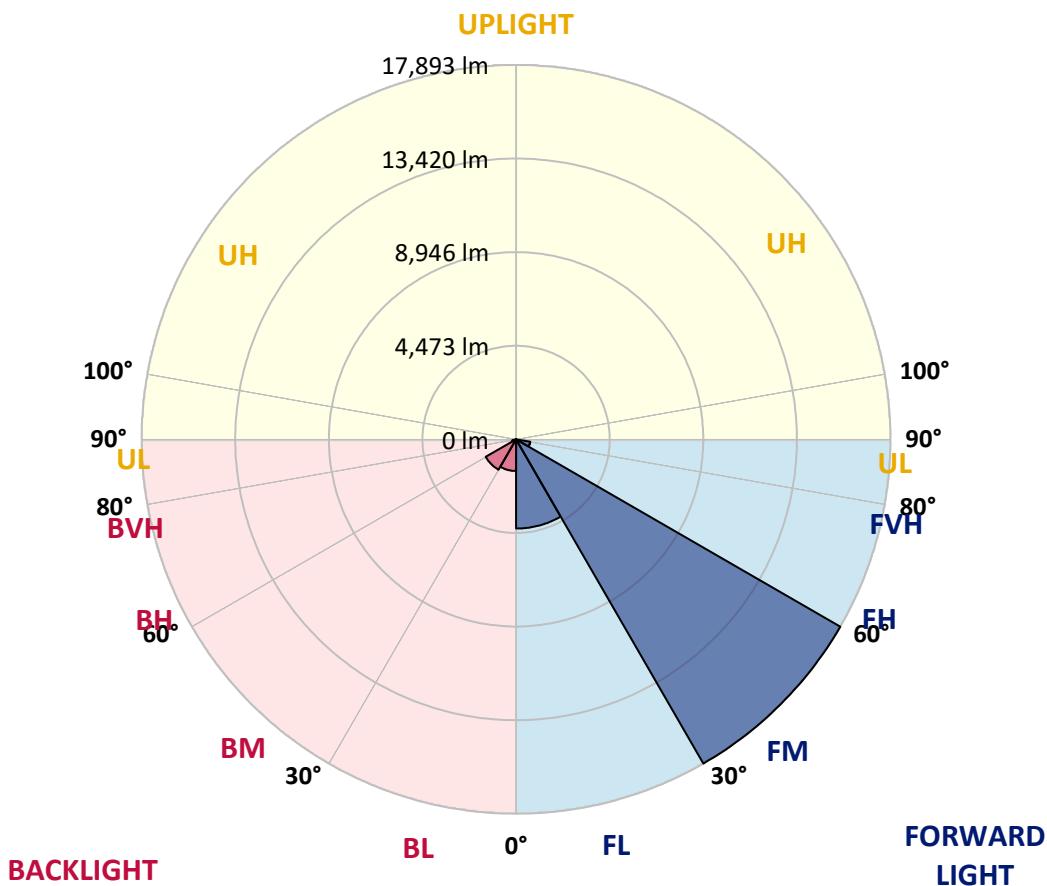
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4262.6	16.3			
FM (30°-60°)	17892.9	68.3			
FH (60°-80°)	686.2	2.6			G1/1800
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	1511.7	5.8	B3/2500		
BM (30°-60°)	1674.9	6.4	B2/2500		
BH (60°-80°)	177.7	0.7	B1/500		G1/500
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	7941.4	7941.4	7941.4	7941.4	7941.4	7941.4	7941.4	7941.4	7941.4	7941.4	7941.4
2.5°	9049.2	9121.5	9101.6	9006.7	8904.5	8832.1	8719.8	8684.9	8430.4	8253.3	8066.2
5°	10141.9	10164.4	10139.5	10024.7	9845.0	9672.9	9488.3	9381.0	8954.4	8570.1	8178.4
7.5°	10403.9	10376.5	10423.9	10481.3	10456.3	10381.5	10186.9	10069.6	9560.6	8934.4	8340.6
10°	9585.6	9523.2	9700.3	9997.2	10309.1	10660.9	10611.0	10621.0	10151.9	9393.5	8552.7
12.5°	8500.3	8475.3	8607.6	8951.9	9563.1	10361.5	10553.6	10875.5	10693.3	9890.0	8794.7
15°	8023.7	8036.2	8116.1	8333.1	8772.2	9765.2	10226.8	10808.1	11177.3	10371.5	9061.6
17.5°	8096.1	8141.0	8138.5	8210.9	8477.8	9273.7	9812.6	10596.0	11551.6	10925.4	9368.5
20°	8587.6	8632.5	8565.1	8510.3	8600.1	9149.0	9595.6	10381.5	11803.6	11484.2	9692.9
22.5°	9323.6	9376.0	9216.3	9059.1	9001.8	9353.5	9677.9	10294.1	11995.7	11995.7	9982.3
25°	10214.3	10286.7	10039.7	9760.2	9600.5	9785.2	10029.7	10491.2	12192.8	12454.8	10179.4
27.5°	11209.8	11212.3	11000.2	10685.8	10386.5	10408.9	10556.1	10935.3	12409.9	12948.8	10334.1
30°	12330.0	12337.5	12055.6	11678.8	11302.1	11199.8	11324.5	11611.5	12861.4	13570.0	10548.6
32.5°	13777.1	13812.0	13407.8	12854.0	12364.9	12172.8	12245.2	12547.1	13580.0	14348.4	10870.5
35°	15733.1	15770.5	15174.2	14443.2	13664.8	13375.4	13447.7	13752.1	14620.4	15453.7	11384.4
37.5°	17664.2	17714.1	17110.3	16429.2	15361.4	14882.3	14957.2	15246.6	16182.2	16980.6	12207.8
40°	18999.0	19066.4	18879.2	18420.2	17429.7	16801.0	16890.8	16995.6	17901.2	18806.9	13275.6
42.5°	19702.6	19797.4	19877.2	20111.7	19590.3	19063.9	18911.7	18919.2	19650.2	20668.1	14385.8
45°	19745.0	19837.3	20246.5	21152.1	21548.8	21439.1	21162.1	20975.0	20985.0	21908.1	15079.4
47.5°	18372.8	18544.9	19310.9	21084.8	22576.7	23487.4	23347.7	22903.6	21546.3	21990.4	15004.6
50°	15121.9	15291.5	16683.7	19236.0	21828.3	24305.7	24882.1	24285.8	21179.6	20965.0	14233.7
52.5°	10982.7	11000.2	11903.4	14884.8	18794.4	22796.3	24153.6	24096.2	20620.7	19722.5	13180.8
55°	5216.9	5154.6	6170.0	8400.5	12998.7	18437.6	20725.5	21374.2	19827.3	18824.4	12364.9
57.5°	1519.4	1549.4	2000.9	3278.4	6501.8	11783.6	14193.7	15401.3	16274.5	15476.1	9590.6
60°	681.1	683.6	761.0	998.0	2165.6	5481.4	7337.6	8832.1	9730.3	9016.7	4757.9
62.5°	494.0	496.5	526.4	563.9	736.0	1856.2	2751.9	3667.6	3734.9	2445.0	1205.1
65°	411.7	411.7	416.7	416.7	441.6	663.7	835.8	1077.8	908.2	673.6	471.5
67.5°	331.8	334.3	339.3	339.3	331.8	331.8	359.3	394.2	421.6	521.4	434.1
70°	259.5	257.0	257.0	259.5	252.0	214.6	232.0	264.5	289.4	406.7	376.7
72.5°	202.1	204.6	202.1	192.1	174.6	127.2	137.2	172.2	184.6	254.5	254.5
75°	152.2	154.7	144.7	109.8	72.4	39.9	52.4	84.8	107.3	124.7	92.3
77.5°	20.0	20.0	15.0	15.0	12.5	15.0	15.0	20.0	29.9	29.9	22.5
80°	2.5	2.5	2.5	5.0	7.5	10.0	10.0	10.0	10.0	12.5	12.5
82.5°	2.5	2.5	2.5	2.5	7.5	7.5	10.0	10.0	10.0	10.0	10.0
85°	0.0	0.0	0.0	2.5	5.0	7.5	7.5	10.0	10.0	10.0	10.0
87.5°	0.0	0.0	0.0	2.5	5.0	7.5	7.5	7.5	10.0	10.0	10.0
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°	7941.4	7941.4	7941.4	7941.4	7941.4	7941.4	7941.4	7941.4	7941.4	7941.4	7941.4
2.5°	7953.9	7809.2	7634.5	7514.8	7345.1	7232.8	7073.2	6965.9	6873.6	6801.2	6841.1
5°	7956.4	7726.8	7370.1	7065.7	6733.9	6429.5	6102.6	5845.7	5613.6	5508.8	5566.2
7.5°	8006.3	7676.9	7130.5	6589.1	5952.9	5324.2	4735.4	4256.4	4019.4	3907.1	3942.0
10°	8103.6	7654.5	6863.6	5965.4	4932.5	4074.2	3502.9	3178.6	3046.3	2976.5	2988.9
12.5°	8193.4	7639.5	6516.8	5144.6	3892.1	3161.1	2864.2	2819.3	2846.7	2849.2	2846.7
15°	8315.6	7612.1	6087.7	4301.3	3113.7	2732.0	2739.4	2804.3	2869.2	2889.1	2884.2
17.5°	8445.4	7569.7	5533.8	3492.9	2642.1	2607.2	2694.5	2781.9	2846.7	2856.7	2859.2
20°	8580.1	7482.3	4902.6	2851.7	2422.6	2512.4	2609.7	2674.6	2722.0	2737.0	2741.9
22.5°	8642.5	7297.7	4174.0	2392.7	2275.4	2395.1	2467.5	2552.3	2567.3	2512.4	2522.4
25°	8610.1	6985.8	3463.0	2083.3	2128.2	2247.9	2355.2	2312.8	2250.4	2210.5	2223.0
27.5°	8507.8	6571.7	2766.9	1856.2	1971.0	2123.2	2135.7	2088.3	2078.3	2045.9	2055.8
30°	8398.0	6095.1	2225.5	1674.1	1811.3	1971.0	1933.6	1951.0	1953.5	1916.1	1928.6
32.5°	8330.6	5596.2	1771.4	1551.9	1709.0	1739.0	1813.8	1848.8	1851.2	1763.9	1778.9
35°	8353.1	5104.7	1499.5	1452.1	1614.2	1606.7	1711.5	1731.5	1586.8	1467.0	1479.5
37.5°	8535.2	4650.6	1344.8	1374.7	1449.6	1506.9	1586.8	1454.6	1422.1	1367.2	1374.7
40°	8874.5	4263.9	1252.5	1327.3	1337.3	1429.6	1307.4	1324.8	1327.3	1292.4	1299.9
42.5°	9271.2	3942.0	1197.6	1299.9	1274.9	1289.9	1167.6	1202.6	1240.0	1225.0	1227.5
45°	9470.8	3627.6	1150.2	1205.1	1212.5	1070.3	1042.9	1080.3	1127.7	1135.2	1137.7
47.5°	9293.7	3328.3	1100.3	1067.8	1117.7	975.5	943.1	955.6	1010.5	1040.4	1045.4
50°	8752.3	2984.0	1025.4	945.6	918.1	875.7	845.8	848.3	910.7	963.0	973.0
52.5°	7991.3	2624.7	903.2	800.9	738.5	770.9	778.4	763.5	820.8	873.2	883.2
55°	7252.8	2175.6	716.0	651.2	593.8	663.7	683.6	663.7	681.1	716.0	718.5
57.5°	5107.1	1230.0	548.9	538.9	491.5	568.8	601.3	571.3	541.4	563.9	568.8
60°	2367.7	643.7	421.6	421.6	409.2	489.0	543.9	501.5	444.1	454.1	461.6
62.5°	741.0	406.7	309.4	291.9	334.3	416.7	461.6	419.2	351.8	351.8	361.8
65°	419.2	349.3	244.5	224.5	271.9	334.3	361.8	316.9	257.0	252.0	252.0
67.5°	389.2	331.8	217.1	182.1	192.1	214.6	224.5	194.6	177.1	174.6	177.1
70°	321.8	276.9	174.6	124.7	117.3	114.8	119.8	112.3	107.3	109.8	117.3
72.5°	199.6	167.2	109.8	74.8	64.9	62.4	62.4	62.4	59.9	59.9	59.9
75°	72.4	62.4	49.9	37.4	32.4	29.9	29.9	32.4	29.9	27.4	24.9
77.5°	22.5	20.0	20.0	20.0	17.5	15.0	12.5	12.5	10.0	7.5	7.5
80°	12.5	12.5	12.5	12.5	10.0	10.0	7.5	5.0	2.5	2.5	0.0
82.5°	12.5	12.5	12.5	10.0	10.0	10.0	7.5	5.0	2.5	0.0	0.0
85°	10.0	10.0	10.0	10.0	10.0	10.0	7.5	5.0	2.5	0.0	0.0
87.5°	10.0	10.0	10.0	10.0	10.0	10.0	7.5	5.0	2.5	0.0	0.0
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)