

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: P642919

Luminaire Tested: GWS-SA6D-830-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-830-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23863.4 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

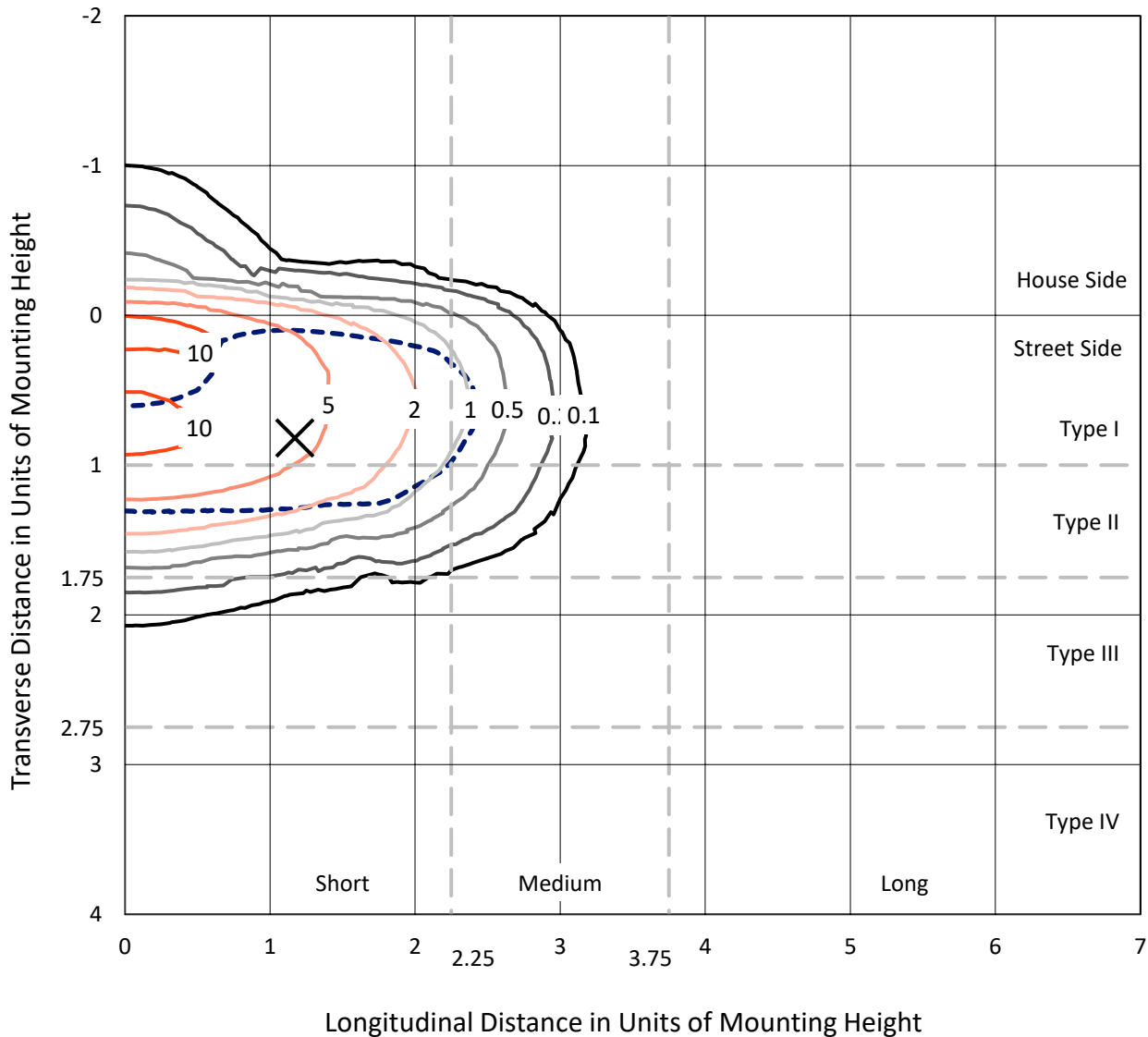
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

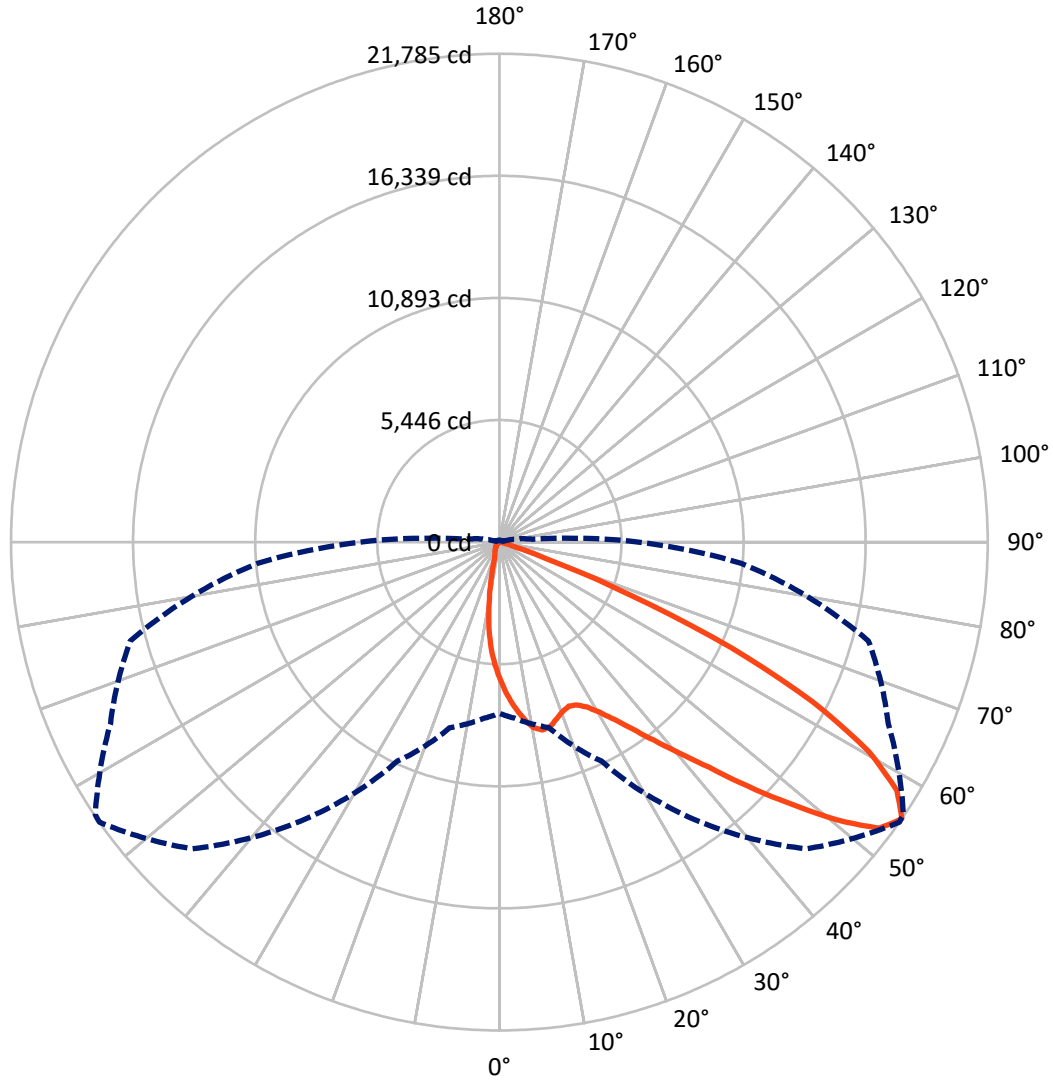
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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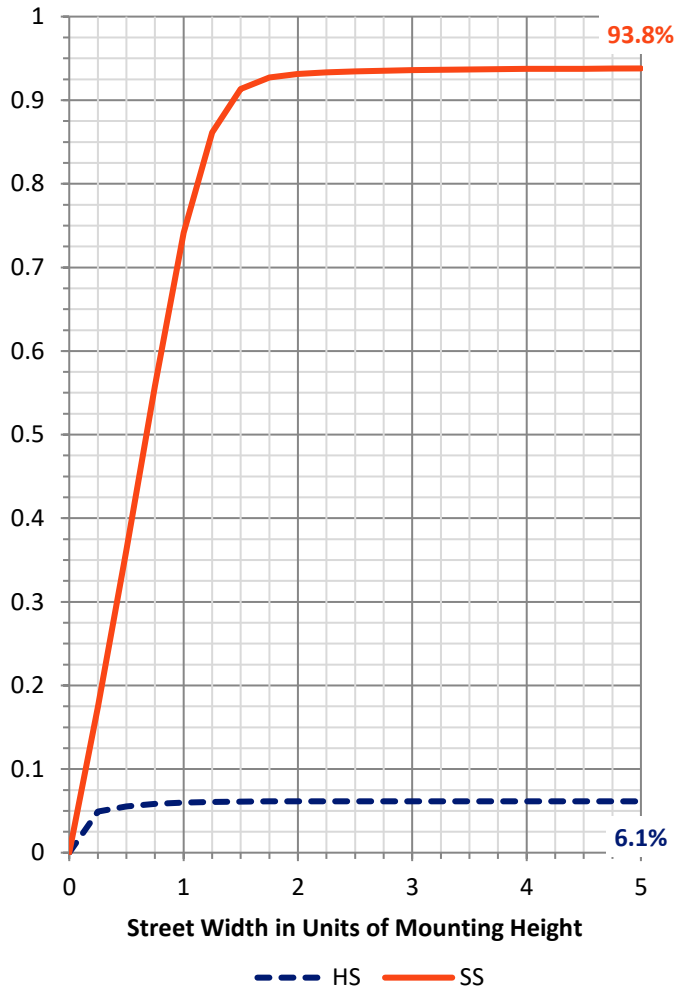
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1472.5	0.0	1472.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	22390.9	0.0	22390.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	23863.4	0.0	23863.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.8	2.3
10°-20°	1313.5	5.5
20°-30°	2187.5	9.2
30°-40°	3727.7	15.6
40°-50°	6084.9	25.5
50°-60°	6370.5	26.7
60°-70°	3213.2	13.5
70°-80°	405.9	1.7
80°-90°	15.4	0.1
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°	23863.4	100.0
0°-180°	23863.4	100.0

Coefficient of Utilization

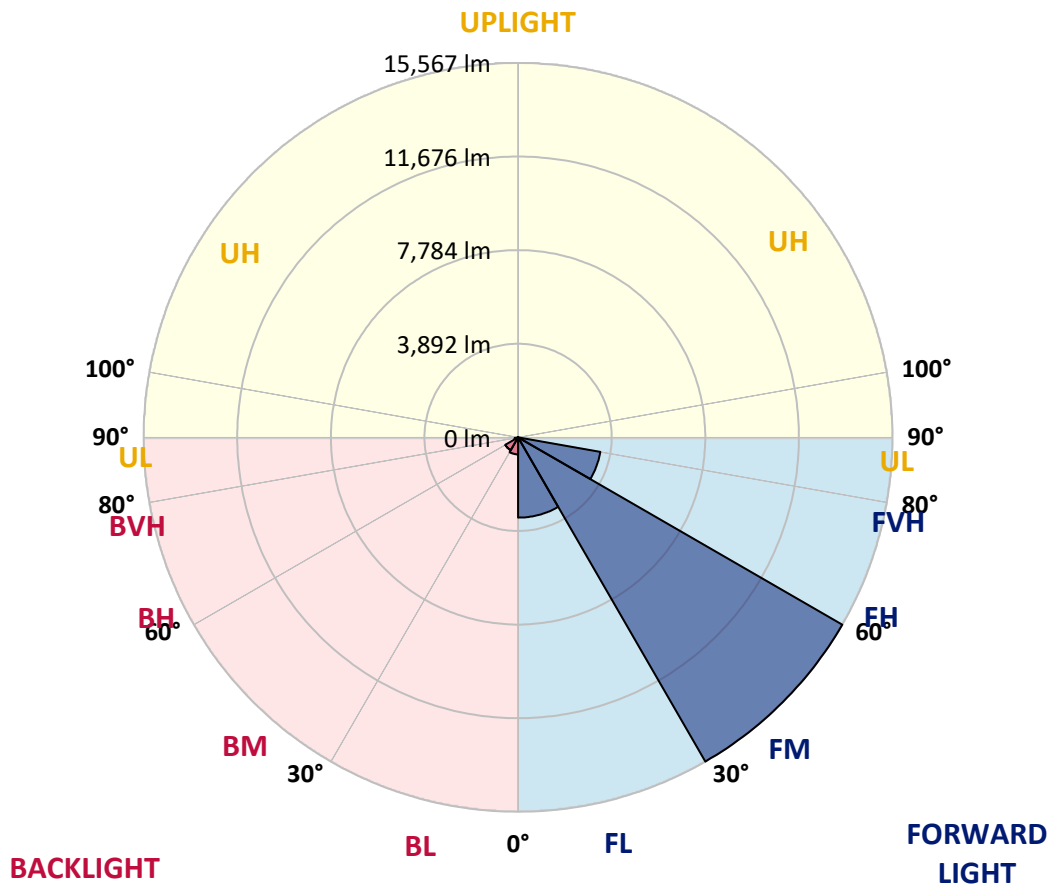


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3338.2	14.0			
FM (30°-60°)	15567.4	65.2			
FH (60°-80°)	3471.3	14.5			G2/5000
FVH (80°-90°)	14.0	0.1			G1/100
BL (0°-30°)	707.7	3.0	B2/1000		
BM (30°-60°)	615.7	2.6	B1/1000		
BH (60°-80°)	147.7	0.6	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9
2.5°	7186.9	7152.3	7205.3	7144.1	7040.1	6952.3	6838.1	6797.3	6613.7	6440.3	6273.0
5°	8060.1	8070.3	8054.0	7968.3	7821.4	7658.2	7427.7	7376.7	7056.4	6725.9	6368.9
7.5°	8276.3	8270.2	8304.9	8337.5	8313.0	8231.4	7980.5	7929.5	7531.7	7036.0	6515.8
10°	7609.2	7613.3	7684.7	7905.0	8178.4	8462.0	8423.2	8394.6	8005.0	7386.9	6679.0
12.5°	6666.7	6703.5	6778.9	7093.1	7556.2	8200.8	8600.7	8629.2	8439.5	7772.4	6870.7
15°	6258.7	6266.9	6328.1	6517.8	6862.6	7658.2	8525.2	8604.8	8802.6	8160.0	7078.8
17.5°	6248.5	6258.7	6285.3	6368.9	6593.3	7231.8	8282.4	8421.2	9076.0	8576.2	7327.7
20°	6632.1	6625.9	6607.6	6562.7	6660.6	7091.1	8058.0	8211.0	9224.9	8982.2	7578.6
22.5°	7327.7	7319.5	7237.9	7052.3	6972.7	7219.6	7947.9	8086.6	9314.7	9343.2	7784.7
25°	8129.4	8186.6	8033.6	7752.0	7556.2	7548.0	8045.8	8143.7	9392.2	9663.5	7925.4
27.5°	9008.7	9027.0	8896.5	8580.3	8296.7	8074.4	8329.4	8402.8	9477.9	9949.1	8005.0
30°	9973.6	9967.5	9818.6	9451.4	9106.6	8786.3	8806.7	8835.3	9677.8	10275.5	8092.7
32.5°	11179.2	11205.8	10940.6	10440.8	10026.6	9584.0	9431.0	9435.0	10038.9	10695.8	8225.3
35°	12817.4	12752.1	12401.2	11689.2	10983.4	10506.0	10244.9	10222.5	10595.8	11260.8	8455.8
37.5°	14378.0	14384.1	14016.9	13233.5	12342.0	11589.3	11220.0	11158.8	11379.2	12044.2	8839.4
40°	15461.2	15481.6	15328.6	14918.6	13974.1	12909.2	12366.5	12303.3	12395.1	13035.7	9341.2
42.5°	16034.5	16091.6	16134.4	16230.3	15514.3	14557.5	13723.1	13717.0	13621.1	14165.8	9922.6
45°	16056.9	16142.6	16403.7	17058.5	17140.1	16438.4	15530.6	15393.9	15024.7	15375.5	10442.8
47.5°	15169.5	15367.4	15922.3	17219.7	18076.5	18309.1	17409.4	17325.8	16289.5	16332.3	10832.4
50°	13100.9	13307.0	14329.0	16393.5	18313.2	19794.2	19471.9	19298.5	17346.2	16964.7	11020.1
52.5°	10979.3	11167.0	11860.6	14426.9	17331.9	20261.4	21210.0	21003.9	18294.8	17185.0	10942.6
55°	7639.8	7890.8	8568.0	10783.5	15071.6	19351.5	21785.2	21742.4	19141.4	17046.3	10822.2
57.5°	3745.5	3994.3	4669.6	6648.4	11165.0	16895.3	20906.0	21132.4	19647.3	16897.4	10724.3
60°	1564.7	1666.7	1899.2	2917.2	6246.5	12768.4	18921.1	19235.2	19337.2	16695.4	10714.1
62.5°	907.8	924.1	948.6	1209.7	2429.6	7319.5	15695.8	16142.6	17707.3	16428.2	10553.0
65°	685.4	691.6	681.4	742.6	1003.7	2776.5	11340.4	11948.3	14779.9	15383.7	9916.5
67.5°	563.0	563.0	536.5	548.8	630.4	1040.4	6260.8	7109.4	10936.5	12644.0	8188.6
70°	448.8	459.0	446.8	430.4	450.8	575.3	2227.7	2762.2	6368.9	7466.4	4775.7
72.5°	340.7	340.7	361.1	348.8	334.6	361.1	777.2	873.1	2556.1	3113.1	1723.8
75°	263.2	271.3	285.6	273.4	253.0	214.2	373.3	395.8	771.1	724.2	385.6
77.5°	134.6	136.7	181.6	199.9	187.7	130.6	163.2	179.5	250.9	224.4	142.8
80°	81.6	85.7	102.0	157.1	124.4	69.4	67.3	71.4	118.3	102.0	59.2
82.5°	34.7	36.7	57.1	57.1	51.0	26.5	26.5	26.5	57.1	53.0	24.5
85°	0.0	0.0	10.2	8.2	8.2	10.2	10.2	10.2	14.3	20.4	12.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.1	6.1
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°	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9	6164.9
2.5°	6164.9	6034.3	5858.9	5699.8	5485.6	5365.2	5197.9	5061.3	4945.0	4908.3	4891.9
5°	6166.9	5942.5	5567.2	5191.8	4730.8	4367.7	3994.3	3698.5	3455.8	3378.3	3357.9
7.5°	6207.7	5877.3	5269.3	4588.0	3816.9	3180.4	2611.2	2101.2	1864.6	1785.0	1768.7
10°	6262.8	5822.2	4924.6	3863.8	2756.1	1938.0	1372.9	1046.5	891.5	805.8	818.0
12.5°	6334.2	5777.3	4543.1	3080.4	1823.8	1064.9	754.8	632.4	599.8	583.4	575.3
15°	6430.1	5724.3	4069.8	2303.2	1117.9	685.4	581.4	548.8	536.5	528.4	526.3
17.5°	6528.0	5663.1	3588.4	1619.8	742.6	569.2	522.2	505.9	497.8	491.6	489.6
20°	6632.1	5559.0	3023.3	1115.9	585.5	512.0	481.4	463.1	452.9	442.7	440.6
22.5°	6676.9	5391.7	2482.7	781.3	520.2	471.2	432.5	410.0	397.8	389.6	389.6
25°	6634.1	5120.4	1923.7	593.6	473.3	426.4	387.6	363.1	352.9	344.8	344.8
27.5°	6519.9	4771.6	1403.5	491.6	422.3	379.4	342.7	320.3	312.1	308.0	308.0
30°	6393.4	4330.9	989.4	422.3	365.2	330.5	299.9	285.6	283.6	279.5	279.5
32.5°	6285.3	3918.9	681.4	371.3	322.3	287.6	267.2	261.1	263.2	259.1	261.1
35°	6226.1	3514.9	505.9	330.5	287.6	255.0	244.8	244.8	244.8	242.8	242.8
37.5°	6250.6	3117.1	412.1	301.9	257.0	232.6	222.4	226.4	230.5	230.5	230.5
40°	6373.0	2764.2	365.2	275.4	230.5	212.2	204.0	210.1	216.2	220.3	220.3
42.5°	6528.0	2478.6	330.5	253.0	212.2	191.8	187.7	193.8	199.9	204.0	204.0
45°	6625.9	2191.0	295.8	224.4	193.8	169.3	169.3	177.5	175.4	177.5	177.5
47.5°	6670.8	1962.5	261.1	193.8	165.2	146.9	148.9	153.0	148.9	153.0	153.0
50°	6560.7	1732.0	230.5	161.2	136.7	128.5	132.6	130.6	130.6	138.7	138.7
52.5°	6358.7	1560.6	204.0	136.7	116.3	114.2	118.3	110.2	112.2	112.2	110.2
55°	6209.8	1462.7	181.6	118.3	100.0	102.0	100.0	85.7	77.5	69.4	67.3
57.5°	6136.3	1423.9	165.2	106.1	89.8	89.8	81.6	59.2	44.9	34.7	30.6
60°	6120.0	1377.0	148.9	91.8	79.6	75.5	59.2	34.7	22.4	16.3	14.3
62.5°	5965.0	1262.8	134.6	73.4	69.4	61.2	36.7	20.4	12.2	8.2	6.1
65°	5457.0	1038.4	120.4	57.1	53.0	44.9	22.4	12.2	6.1	2.0	0.0
67.5°	4341.1	736.4	106.1	42.8	36.7	28.6	14.3	8.2	2.0	0.0	0.0
70°	2503.1	397.8	87.7	30.6	24.5	18.4	10.2	4.1	0.0	0.0	0.0
72.5°	836.4	185.6	67.3	20.4	18.4	14.3	6.1	2.0	0.0	0.0	0.0
75°	183.6	110.2	44.9	14.3	12.2	10.2	4.1	0.0	0.0	0.0	0.0
77.5°	69.4	77.5	22.4	10.2	8.2	6.1	2.0	0.0	0.0	0.0	0.0
80°	26.5	51.0	10.2	6.1	6.1	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.3	20.4	6.1	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.2	10.2	4.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	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)