

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: P640664

Luminaire Tested: GWS-SA5E-735-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640664
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-SA5E-735-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31050 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

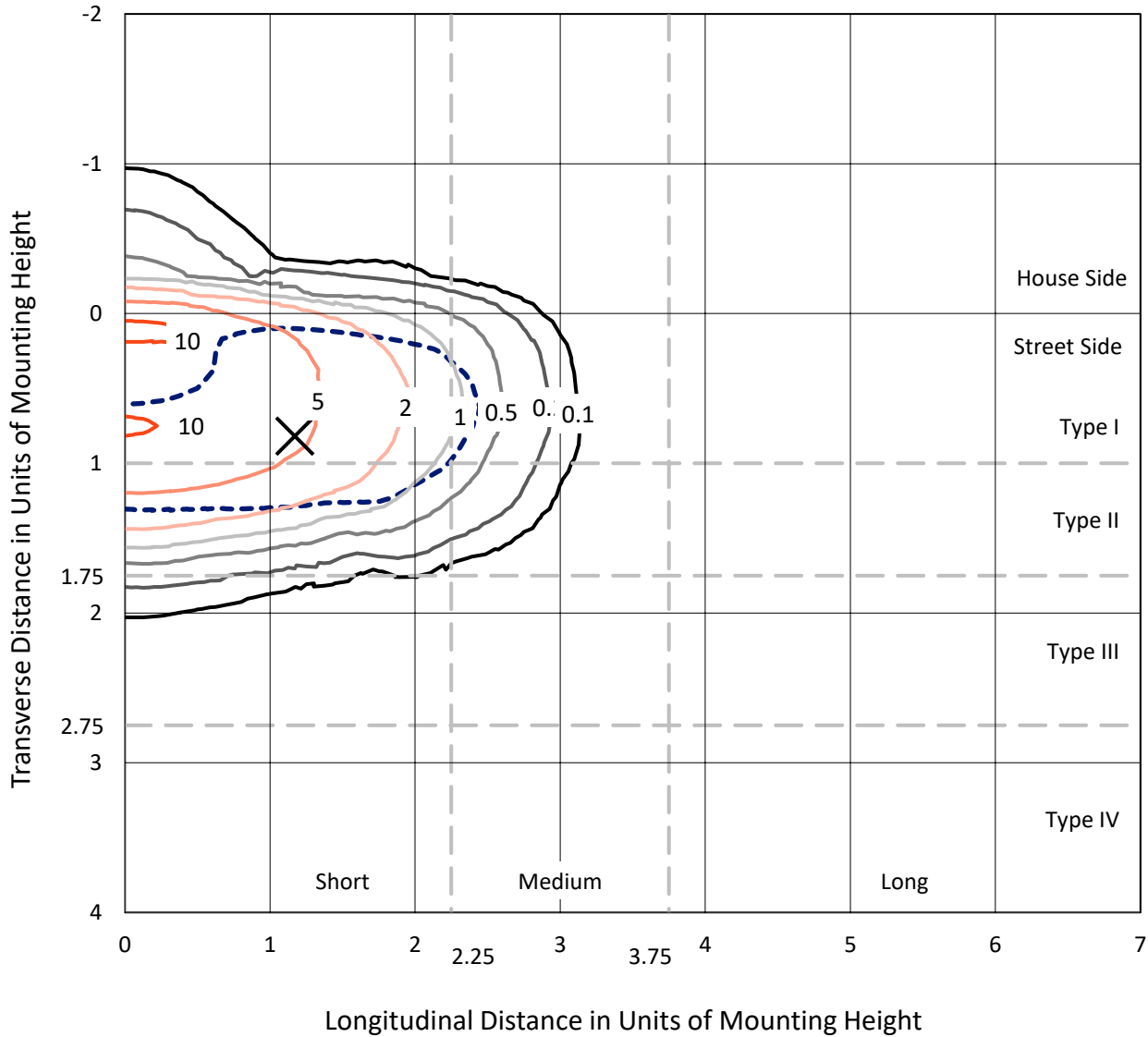
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640664
 CATALOG NUMBER: GWS-SA5E-735-U-AFL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

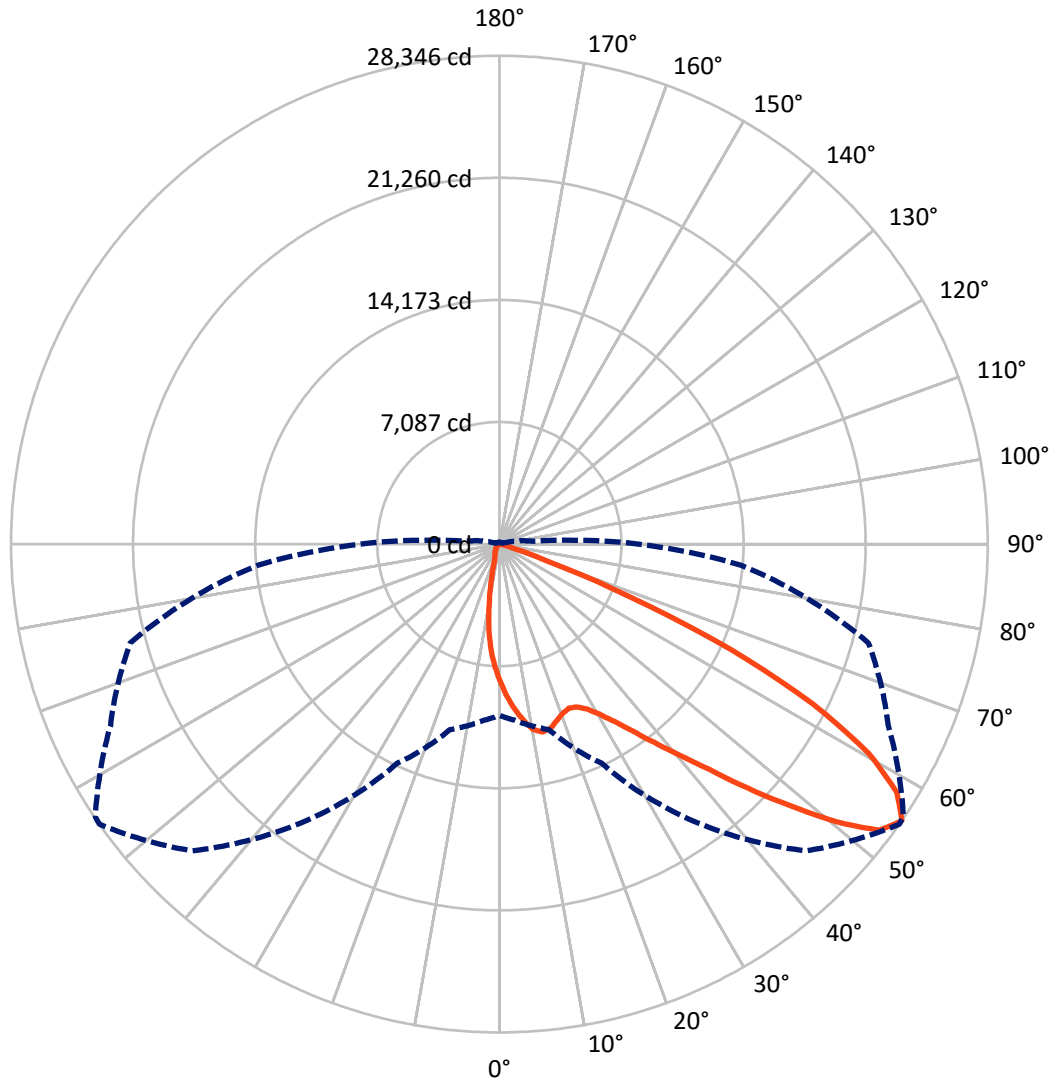
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

REPORT NUMBER: P640664
CATALOG NUMBER: GWS-SA5E-735-U-AFL-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P640664

CATALOG NUMBER: GWS-SA5E-735-U-AFL-W-HSS

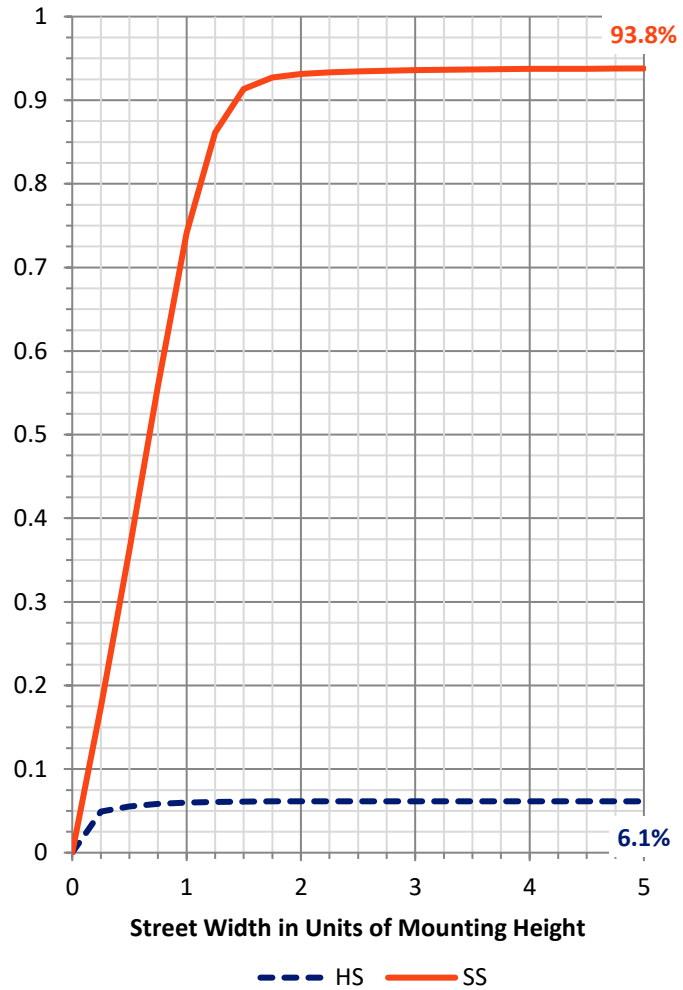
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1915.9	0.0	1915.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	29134.1	0.0	29134.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	31050.0	0.0	31050.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.9	2.3
10°-20°	1709.1	5.5
20°-30°	2846.3	9.2
30°-40°	4850.3	15.6
40°-50°	7917.3	25.5
50°-60°	8289.1	26.7
60°-70°	4180.8	13.5
70°-80°	528.1	1.7
80°-90°	20.1	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°	31050.0	100.0
0°-180°	31050.0	100.0

Coefficient of Utilization



REPORT NUMBER: P640664

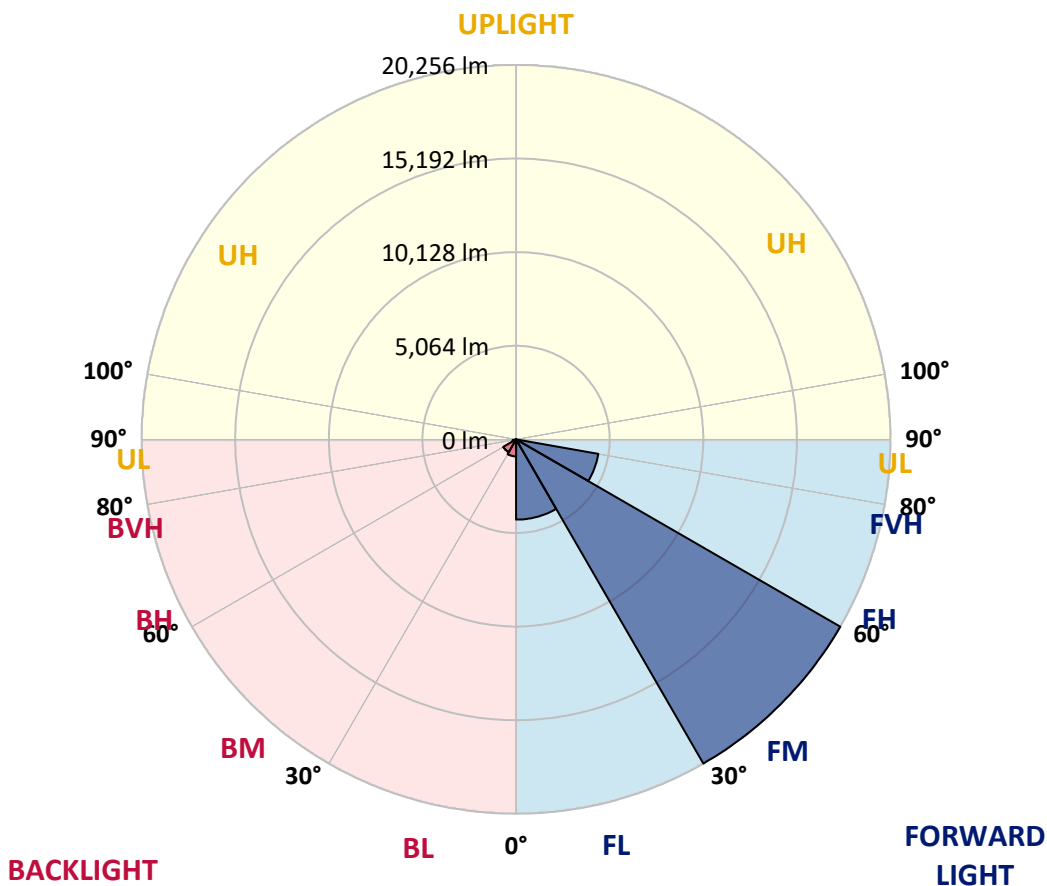
CATALOG NUMBER: GWS-SA5E-735-U-AFL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4343.5	14.0			
FM (30°-60°)	20255.6	65.2			
FH (60°-80°)	4516.7	14.5			G2/5000
FVH (80°-90°)	18.2	0.1			G1/100
BL (0°-30°)	920.9	3.0	B2/1000		
BM (30°-60°)	801.1	2.6	B1/1000		
BH (60°-80°)	192.2	0.6	B1/500		G1/500
BVH (80°-90°)	1.8	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





REPORT NUMBER: P640664

CATALOG NUMBER: GWS-SA5E-735-U-AFL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8021.5	8021.5	8021.5	8021.5	8021.5	8021.5	8021.5	8021.5	8021.5	8021.5	8021.5
2.5°	9351.3	9306.2	9375.2	9295.6	9160.2	9046.1	8897.4	8844.4	8605.5	8379.8	8162.2
5°	10487.4	10500.7	10479.4	10368.0	10176.8	9964.5	9664.6	9598.2	9181.5	8751.5	8286.9
7.5°	10768.8	10760.8	10805.9	10848.4	10816.6	10710.4	10383.9	10317.5	9799.9	9154.9	8478.1
10°	9900.8	9906.1	9999.0	10285.7	10641.4	11010.3	10959.9	10922.7	10415.7	9611.5	8690.4
12.5°	8674.5	8722.3	8820.5	9229.2	9831.8	10670.6	11190.8	11228.0	10981.1	10113.1	8939.9
15°	8143.6	8154.2	8233.9	8480.7	8929.3	9964.5	11092.6	11196.1	11453.6	10617.5	9210.7
17.5°	8130.3	8143.6	8178.1	8286.9	8578.9	9409.7	10776.7	10957.2	11809.3	11159.0	9534.5
20°	8629.4	8621.4	8597.5	8539.1	8666.5	9226.6	10484.8	10683.8	12003.1	11687.2	9861.0
22.5°	9534.5	9523.9	9417.7	9176.2	9072.6	9393.8	10341.4	10521.9	12119.8	12157.0	10129.1
25°	10577.7	10652.0	10452.9	10086.6	9831.8	9821.2	10468.8	10596.2	12220.7	12573.7	10312.2
27.5°	11721.7	11745.6	11575.7	11164.3	10795.3	10506.0	10837.8	10933.3	12332.2	12945.4	10415.7
30°	12977.2	12969.2	12775.5	12297.7	11849.1	11432.4	11458.9	11496.1	12592.3	13370.1	10529.9
32.5°	14545.9	14580.4	14235.4	13585.1	13046.2	12470.2	12271.1	12276.5	13062.1	13916.9	10702.4
35°	16677.4	16592.5	16135.9	15209.5	14291.1	13670.0	13330.2	13301.0	13786.8	14652.1	11002.4
37.5°	18708.0	18716.0	18238.2	17218.9	16058.9	15079.5	14599.0	14519.4	14806.1	15671.4	11501.4
40°	20117.5	20144.0	19944.9	19411.4	18182.4	16796.8	16090.8	16008.5	16127.9	16961.4	12154.4
42.5°	20863.3	20937.7	20993.4	21118.2	20186.5	18941.6	17855.9	17848.0	17723.2	18431.9	12910.8
45°	20892.5	21004.0	21343.8	22195.8	22302.0	21388.9	20207.7	20029.9	19549.4	20006.0	13587.7
47.5°	19737.9	19995.4	20717.3	22405.5	23520.4	23823.0	22652.4	22543.6	21195.1	21250.9	14094.7
50°	17046.4	17314.4	18644.3	21330.5	23828.3	25755.3	25335.9	25110.3	22570.1	22073.7	14338.9
52.5°	14285.8	14530.0	15432.5	18771.7	22551.5	26363.2	27597.5	27329.4	23804.4	22360.4	14238.0
55°	9940.6	10267.1	11148.3	14031.0	19610.5	25179.3	28346.0	28290.3	24905.9	22179.9	14081.4
57.5°	4873.4	5197.3	6075.8	8650.6	14527.4	21983.5	27202.0	27496.6	25564.2	21986.1	13954.0
60°	2035.9	2168.6	2471.2	3795.7	8127.7	16613.7	24619.3	25028.0	25160.8	21723.4	13940.7
62.5°	1181.2	1202.4	1234.3	1574.0	3161.4	9523.9	20422.7	21004.0	23039.9	21375.6	13731.0
65°	891.9	899.8	886.6	966.2	1305.9	3612.6	14755.6	15546.6	19230.9	20016.6	12902.9
67.5°	732.6	732.6	698.1	714.0	820.2	1353.7	8146.3	9250.5	14230.1	16451.8	10654.6
70°	584.0	597.2	581.3	560.1	586.6	748.5	2898.6	3594.0	8286.9	9715.0	6213.9
72.5°	443.3	443.3	469.8	453.9	435.3	469.8	1011.3	1136.1	3325.9	4050.6	2242.9
75°	342.4	353.0	371.6	355.7	329.1	278.7	485.7	514.9	1003.4	942.3	501.7
77.5°	175.2	177.8	236.2	260.1	244.2	169.9	212.3	233.6	326.5	292.0	185.8
80°	106.2	111.5	132.7	204.4	161.9	90.2	87.6	92.9	154.0	132.7	77.0
82.5°	45.1	47.8	74.3	74.3	66.4	34.5	34.5	34.5	74.3	69.0	31.9
85°	0.0	0.0	13.3	10.6	10.6	13.3	13.3	13.3	18.6	26.5	15.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P640664

CATALOG NUMBER: GWS-SA5E-735-U-AFL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8021.5	8021.5	8021.5	8021.5	8021.5	8021.5	8021.5	8021.5	8021.5	8021.5	8021.5
2.5°	8021.5	7851.6	7623.3	7416.3	7137.6	6981.0	6763.3	6585.5	6434.2	6386.4	6365.2
5°	8024.2	7732.2	7243.8	6755.4	6155.5	5683.0	5197.3	4812.4	4496.5	4395.6	4369.1
7.5°	8077.2	7647.2	6856.2	5969.7	4966.3	4138.2	3397.6	2734.0	2426.1	2322.6	2301.3
10°	8148.9	7575.6	6407.6	5027.4	3586.1	2521.7	1786.4	1361.7	1160.0	1048.5	1064.4
12.5°	8241.8	7517.2	5911.3	4008.1	2373.0	1385.6	982.1	822.9	780.4	759.1	748.5
15°	8366.6	7448.2	5295.5	2996.8	1454.6	891.9	756.5	714.0	698.1	687.5	684.8
17.5°	8494.0	7368.5	4669.0	2107.6	966.2	740.6	679.5	658.3	647.7	639.7	637.0
20°	8629.4	7233.2	3933.8	1451.9	761.8	666.2	626.4	602.5	589.3	576.0	573.3
22.5°	8687.7	7015.5	3230.4	1016.6	676.9	613.2	562.7	533.5	517.6	507.0	507.0
25°	8632.0	6662.5	2503.1	772.4	615.8	554.8	504.3	472.5	459.2	448.6	448.6
27.5°	8483.4	6208.6	1826.2	639.7	549.5	493.7	445.9	416.7	406.1	400.8	400.8
30°	8318.8	5635.2	1287.4	549.5	475.1	430.0	390.2	371.6	369.0	363.6	363.6
32.5°	8178.1	5099.0	886.6	483.1	419.4	374.3	347.7	339.8	342.4	337.1	339.8
35°	8101.1	4573.5	658.3	430.0	374.3	331.8	318.5	318.5	318.5	315.9	315.9
37.5°	8133.0	4055.9	536.2	392.8	334.5	302.6	289.3	294.6	299.9	299.9	299.9
40°	8292.2	3596.7	475.1	358.3	299.9	276.1	265.4	273.4	281.4	286.7	286.7
42.5°	8494.0	3225.1	430.0	329.1	276.1	249.5	244.2	252.2	260.1	265.4	265.4
45°	8621.4	2850.8	384.9	292.0	252.2	220.3	220.3	230.9	228.3	230.9	230.9
47.5°	8679.8	2553.5	339.8	252.2	215.0	191.1	193.8	199.1	193.8	199.1	199.1
50°	8536.4	2253.6	299.9	209.7	177.8	167.2	172.5	169.9	169.9	180.5	180.5
52.5°	8273.7	2030.6	265.4	177.8	151.3	148.6	154.0	143.3	146.0	146.0	143.3
55°	8079.9	1903.2	236.2	154.0	130.1	132.7	130.1	111.5	100.9	90.2	87.6
57.5°	7984.3	1852.7	215.0	138.0	116.8	116.8	106.2	77.0	58.4	45.1	39.8
60°	7963.1	1791.7	193.8	119.4	103.5	98.2	77.0	45.1	29.2	21.2	18.6
62.5°	7761.4	1643.1	175.2	95.6	90.2	79.6	47.8	26.5	15.9	10.6	8.0
65°	7100.4	1351.1	156.6	74.3	69.0	58.4	29.2	15.9	8.0	2.7	0.0
67.5°	5648.5	958.2	138.0	55.7	47.8	37.2	18.6	10.6	2.7	0.0	0.0
70°	3256.9	517.6	114.1	39.8	31.9	23.9	13.3	5.3	0.0	0.0	0.0
72.5°	1088.3	241.5	87.6	26.5	23.9	18.6	8.0	2.7	0.0	0.0	0.0
75°	238.9	143.3	58.4	18.6	15.9	13.3	5.3	0.0	0.0	0.0	0.0
77.5°	90.2	100.9	29.2	13.3	10.6	8.0	2.7	0.0	0.0	0.0	0.0
80°	34.5	66.4	13.3	8.0	8.0	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	18.6	26.5	8.0	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.6	13.3	5.3	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	2.7	2.7	2.7	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)