

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: P640829

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640829  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

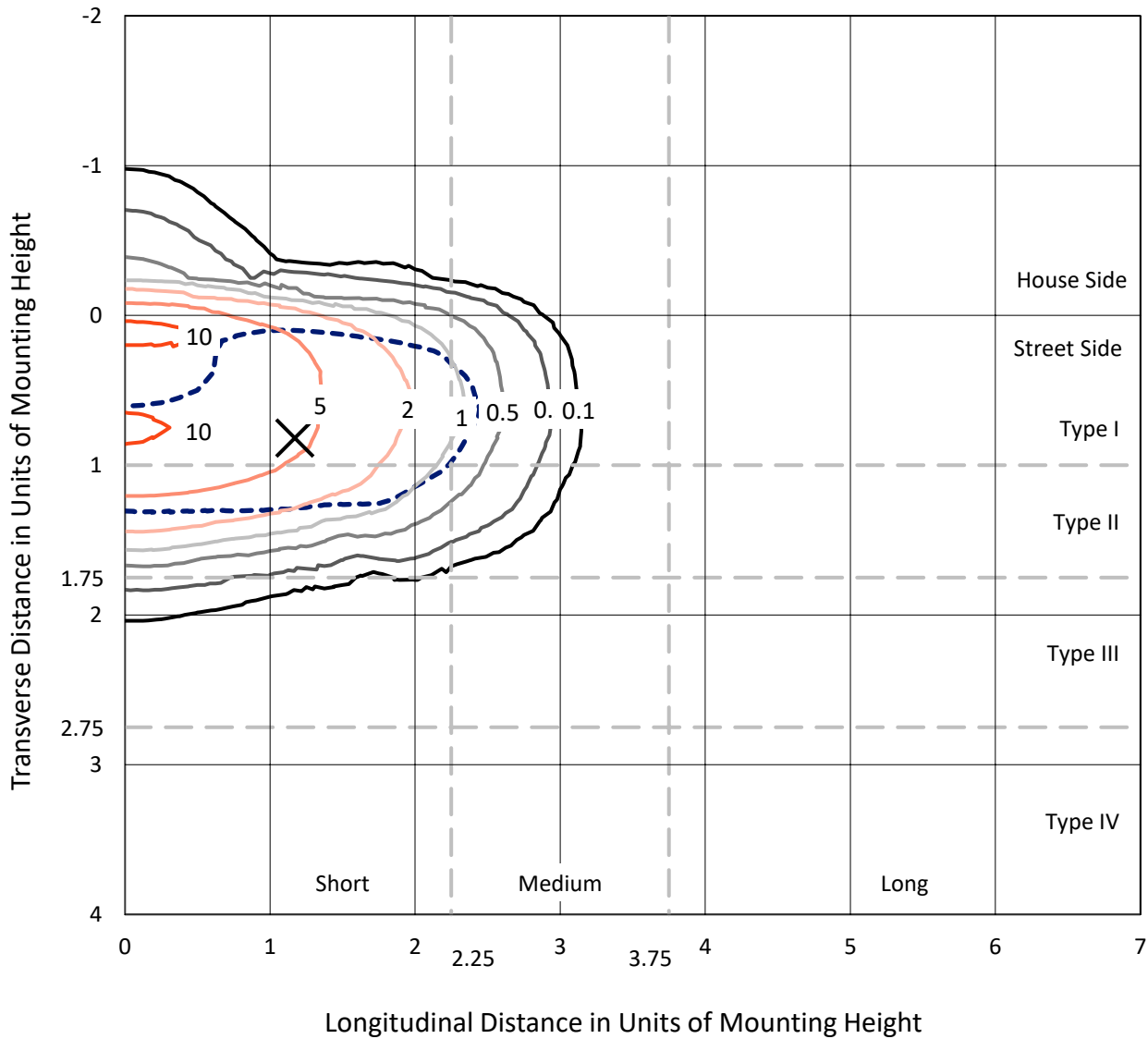
Lumens per Lamp: N/A  
Luminaire Lumens: 31761.5 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

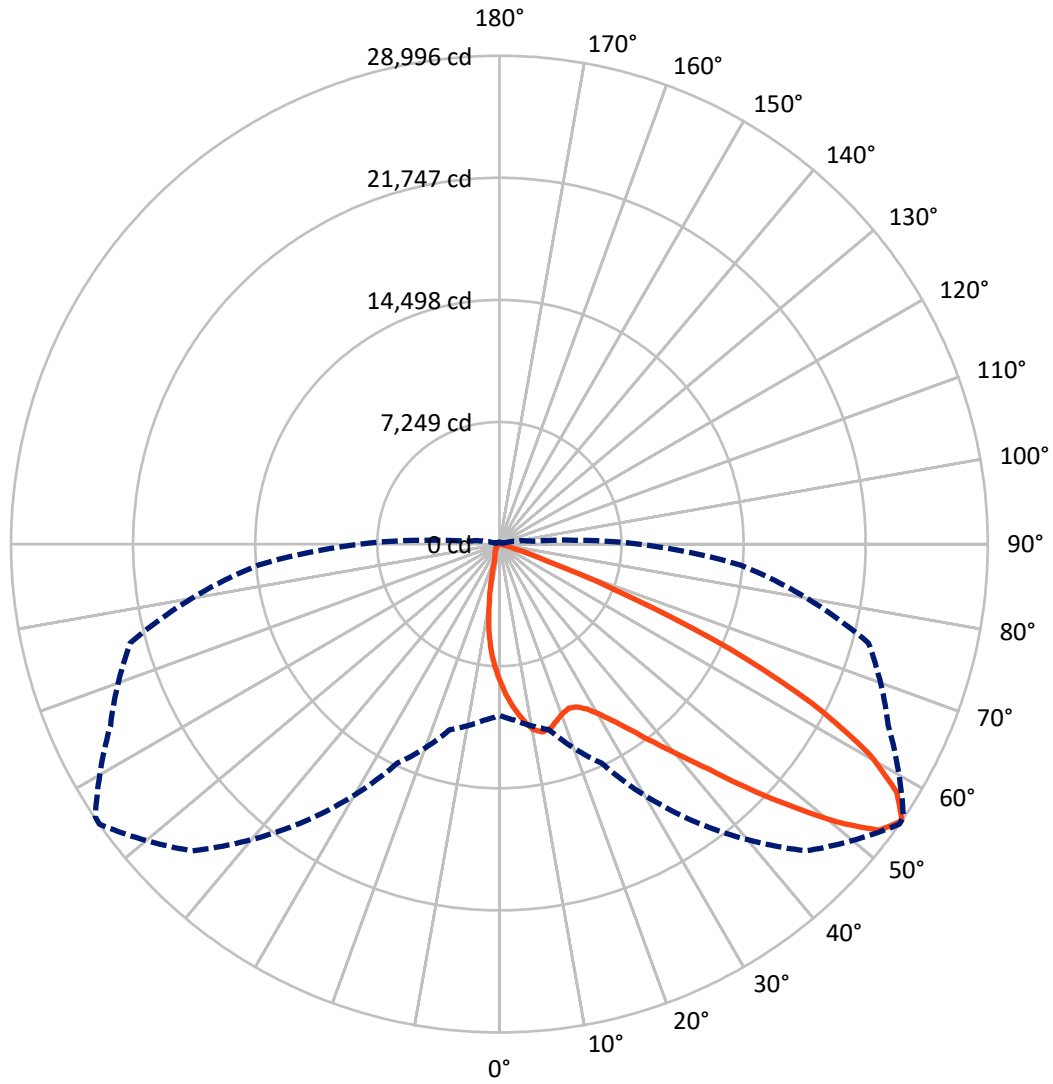
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.9 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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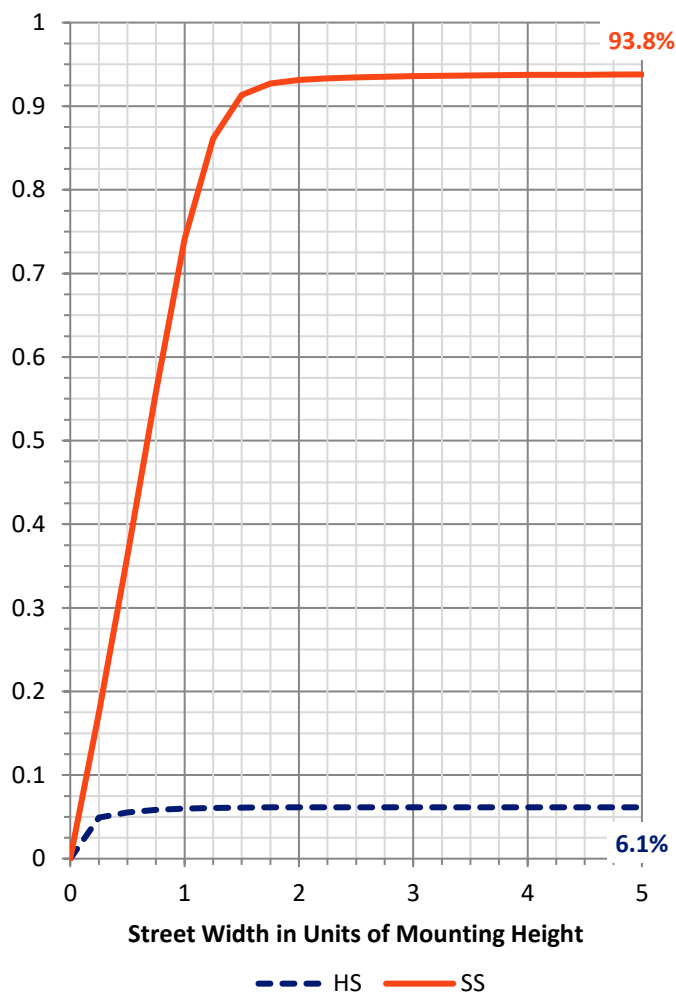
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1959.8	0.0	1959.8
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	29801.7	0.0	29801.7
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	31761.5	0.0	31761.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	725.1	2.3
10°-20°	1748.3	5.5
20°-30°	2911.5	9.2
30°-40°	4961.4	15.6
40°-50°	8098.8	25.5
50°-60°	8479.0	26.7
60°-70°	4276.6	13.5
70°-80°	540.2	1.7
80°-90°	20.5	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°	31761.5	100.0
0°-180°	31761.5	100.0

**Coefficient of Utilization**



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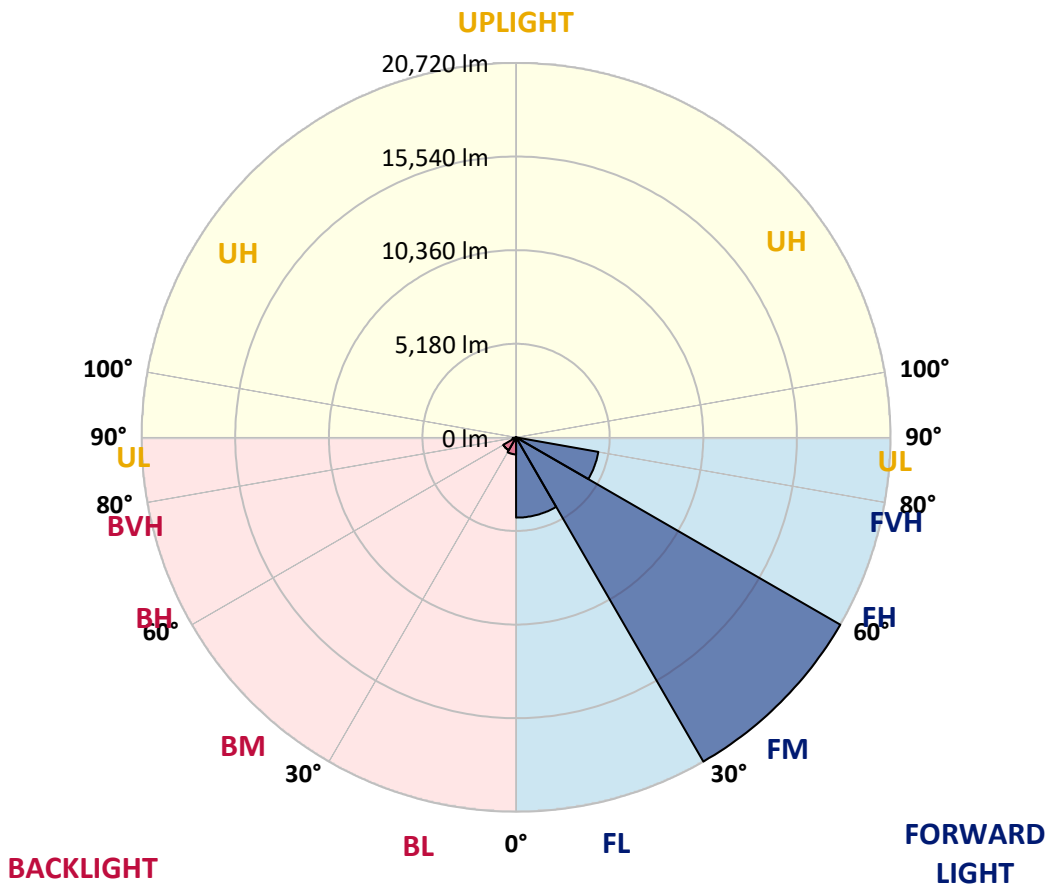
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4443.0	14.0			
FM (30°-60°)	20719.8	65.2			
FH (60°-80°)	4620.2	14.5			G2/5000
FVH (80°-90°)	18.7	0.1			G1/100
BL (0°-30°)	942.0	3.0	B2/1000		
BM (30°-60°)	819.4	2.6	B1/1000		
BH (60°-80°)	196.6	0.6	B1/500		G1/500
BVH (80°-90°)	1.9	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°	8205.3	8205.3	8205.3	8205.3	8205.3	8205.3	8205.3	8205.3	8205.3	8205.3	8205.3
2.5°	9565.6	9519.5	9590.1	9508.6	9370.1	9253.4	9101.3	9047.0	8802.7	8571.9	8349.2
5°	10727.7	10741.3	10719.6	10605.5	10410.0	10192.8	9886.0	9818.1	9391.9	8952.0	8476.8
7.5°	11015.5	11007.4	11053.5	11097.0	11064.4	10955.8	10621.8	10554.0	10024.5	9364.7	8672.3
10°	10127.7	10133.1	10228.1	10521.4	10885.2	11262.6	11211.0	11173.0	10654.4	9831.7	8889.5
12.5°	8873.2	8922.1	9022.6	9440.7	10057.1	10915.1	11447.3	11485.3	11232.8	10344.9	9144.8
15°	8330.2	8341.1	8422.5	8675.0	9133.9	10192.8	11346.8	11452.7	11716.1	10860.8	9421.7
17.5°	8316.6	8330.2	8365.5	8476.8	8775.5	9625.4	11023.7	11208.3	12079.9	11414.7	9753.0
20°	8827.1	8818.9	8794.5	8734.8	8865.1	9438.0	10725.0	10928.6	12278.1	11955.0	10086.9
22.5°	9753.0	9742.1	9633.5	9386.4	9280.5	9609.1	10578.4	10763.0	12397.6	12435.6	10361.2
25°	10820.0	10896.1	10692.4	10317.7	10057.1	10046.2	10708.7	10839.0	12500.7	12861.9	10548.5
27.5°	11990.3	12014.7	11841.0	11420.1	11042.7	10746.7	11086.1	11183.9	12614.8	13242.0	10654.4
30°	13274.6	13266.4	13068.2	12579.5	12120.6	11694.3	11721.5	11759.5	12880.9	13676.4	10771.2
32.5°	14879.3	14914.6	14561.6	13896.4	13345.2	12756.0	12552.3	12557.8	13361.5	14235.8	10947.7
35°	17059.6	16972.7	16505.7	15558.1	14618.6	13983.2	13635.7	13605.8	14102.7	14987.9	11254.5
37.5°	19136.7	19144.8	18656.1	17613.5	16426.9	15425.0	14933.6	14852.1	15145.3	16030.5	11764.9
40°	20578.4	20605.6	20402.0	19856.2	18599.1	17181.7	16459.5	16375.3	16497.5	17350.1	12432.9
42.5°	21341.4	21417.4	21474.5	21602.1	20649.0	19375.6	18265.1	18257.0	18129.3	18854.3	13206.7
45°	21371.3	21485.3	21832.9	22704.4	22813.0	21879.0	20670.8	20488.8	19997.4	20464.4	13899.1
47.5°	20190.2	20453.5	21192.1	22918.9	24059.3	24368.9	23171.5	23060.1	21680.8	21737.8	14417.7
50°	17437.0	17711.2	19071.5	21819.3	24374.3	26345.5	25916.5	25685.7	23087.3	22579.5	14667.5
52.5°	14613.2	14863.0	15786.1	19201.8	23068.3	26967.3	28229.9	27955.6	24349.8	22872.8	14564.3
55°	10168.4	10502.4	11403.8	14352.5	20059.8	25756.3	28995.5	28938.5	25476.6	22688.1	14404.1
57.5°	4985.1	5316.3	6215.1	8848.8	14860.2	22487.2	27825.3	28126.7	26150.0	22489.9	14273.8
60°	2082.6	2218.3	2527.8	3882.7	8313.9	16994.4	25183.4	25601.5	25737.3	22221.1	14260.2
62.5°	1208.3	1230.0	1262.6	1610.1	3233.8	9742.1	20890.7	21485.3	23567.9	21865.4	14045.7
65°	912.3	920.5	906.9	988.3	1335.9	3695.4	15093.8	15902.9	19671.6	20475.3	13198.6
67.5°	749.4	749.4	714.1	730.4	839.0	1384.7	8332.9	9462.4	14556.1	16828.8	10898.8
70°	597.3	610.9	594.6	572.9	600.1	765.7	2965.0	3676.4	8476.8	9937.6	6356.3
72.5°	453.4	453.4	480.6	464.3	445.3	480.6	1034.5	1162.1	3402.1	4143.4	2294.3
75°	350.3	361.1	380.1	363.8	336.7	285.1	496.9	526.7	1026.3	963.9	513.2
77.5°	179.2	181.9	241.7	266.1	249.8	173.8	217.2	238.9	334.0	298.7	190.1
80°	108.6	114.0	135.8	209.1	165.6	92.3	89.6	95.0	157.5	135.8	78.7
82.5°	46.2	48.9	76.0	76.0	67.9	35.3	35.3	35.3	76.0	70.6	32.6
85°	0.0	0.0	13.6	10.9	10.9	13.6	13.6	13.6	19.0	27.2	16.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8205.3	8205.3	8205.3	8205.3	8205.3	8205.3	8205.3	8205.3	8205.3	8205.3	8205.3
2.5°	8205.3	8031.5	7798.0	7586.2	7301.2	7141.0	6918.3	6736.4	6581.6	6532.8	6511.0
5°	8208.0	7909.4	7409.8	6910.2	6296.5	5813.2	5316.3	4922.6	4599.5	4496.4	4469.2
7.5°	8262.3	7822.5	7013.3	6106.5	5080.1	4233.0	3475.4	2796.6	2481.7	2375.8	2354.1
10°	8335.6	7749.2	6554.5	5142.6	3668.2	2579.4	1827.3	1392.9	1186.5	1072.5	1088.8
12.5°	8430.7	7689.4	6046.7	4099.9	2427.4	1417.3	1004.6	841.7	798.3	776.5	765.7
15°	8558.3	7618.8	5416.8	3065.5	1487.9	912.3	773.8	730.4	714.1	703.2	700.5
17.5°	8688.6	7537.4	4776.0	2155.9	988.3	757.5	695.1	673.4	662.5	654.4	651.6
20°	8827.1	7398.9	4023.9	1485.2	779.3	681.5	640.8	616.3	602.8	589.2	586.5
22.5°	8886.8	7176.3	3304.4	1039.9	692.4	627.2	575.6	545.8	529.5	518.6	518.6
25°	8829.8	6815.1	2560.4	790.1	629.9	567.5	515.9	483.3	469.7	458.9	458.9
27.5°	8677.8	6350.8	1868.1	654.4	562.0	505.0	456.2	426.3	415.4	410.0	410.0
30°	8509.4	5764.4	1316.9	562.0	486.0	439.9	399.1	380.1	377.4	372.0	372.0
32.5°	8365.5	5215.9	906.9	494.2	429.0	382.8	355.7	347.5	350.3	344.8	347.5
35°	8286.8	4678.3	673.4	439.9	382.8	339.4	325.8	325.8	325.8	323.1	323.1
37.5°	8319.3	4148.8	548.5	401.8	342.1	309.5	296.0	301.4	306.8	306.8	306.8
40°	8482.3	3679.1	486.0	366.6	306.8	282.4	271.5	279.7	287.8	293.2	293.2
42.5°	8688.6	3299.0	439.9	336.7	282.4	255.2	249.8	257.9	266.1	271.5	271.5
45°	8818.9	2916.1	393.7	298.7	257.9	225.4	225.4	236.2	233.5	236.2	236.2
47.5°	8878.7	2612.0	347.5	257.9	219.9	195.5	198.2	203.6	198.2	203.6	203.6
50°	8732.1	2305.2	306.8	214.5	181.9	171.1	176.5	173.8	173.8	184.6	184.6
52.5°	8463.3	2077.1	271.5	181.9	154.8	152.1	157.5	146.6	149.3	149.3	146.6
55°	8265.0	1946.8	241.7	157.5	133.0	135.8	133.0	114.0	103.2	92.3	89.6
57.5°	8167.3	1895.2	219.9	141.2	119.5	119.5	108.6	78.7	59.7	46.2	40.7
60°	8145.6	1832.8	198.2	122.2	105.9	100.5	78.7	46.2	29.9	21.7	19.0
62.5°	7939.2	1680.7	179.2	97.7	92.3	81.5	48.9	27.2	16.3	10.9	8.1
65°	7263.1	1382.0	160.2	76.0	70.6	59.7	29.9	16.3	8.1	2.7	0.0
67.5°	5777.9	980.2	141.2	57.0	48.9	38.0	19.0	10.9	2.7	0.0	0.0
70°	3331.5	529.5	116.8	40.7	32.6	24.4	13.6	5.4	0.0	0.0	0.0
72.5°	1113.2	247.1	89.6	27.2	24.4	19.0	8.1	2.7	0.0	0.0	0.0
75°	244.4	146.6	59.7	19.0	16.3	13.6	5.4	0.0	0.0	0.0	0.0
77.5°	92.3	103.2	29.9	13.6	10.9	8.1	2.7	0.0	0.0	0.0	0.0
80°	35.3	67.9	13.6	8.1	8.1	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	19.0	27.2	8.1	5.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.9	13.6	5.4	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	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)