

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: P642754

Luminaire Tested: GWS-SA6D-750-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642754  
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-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

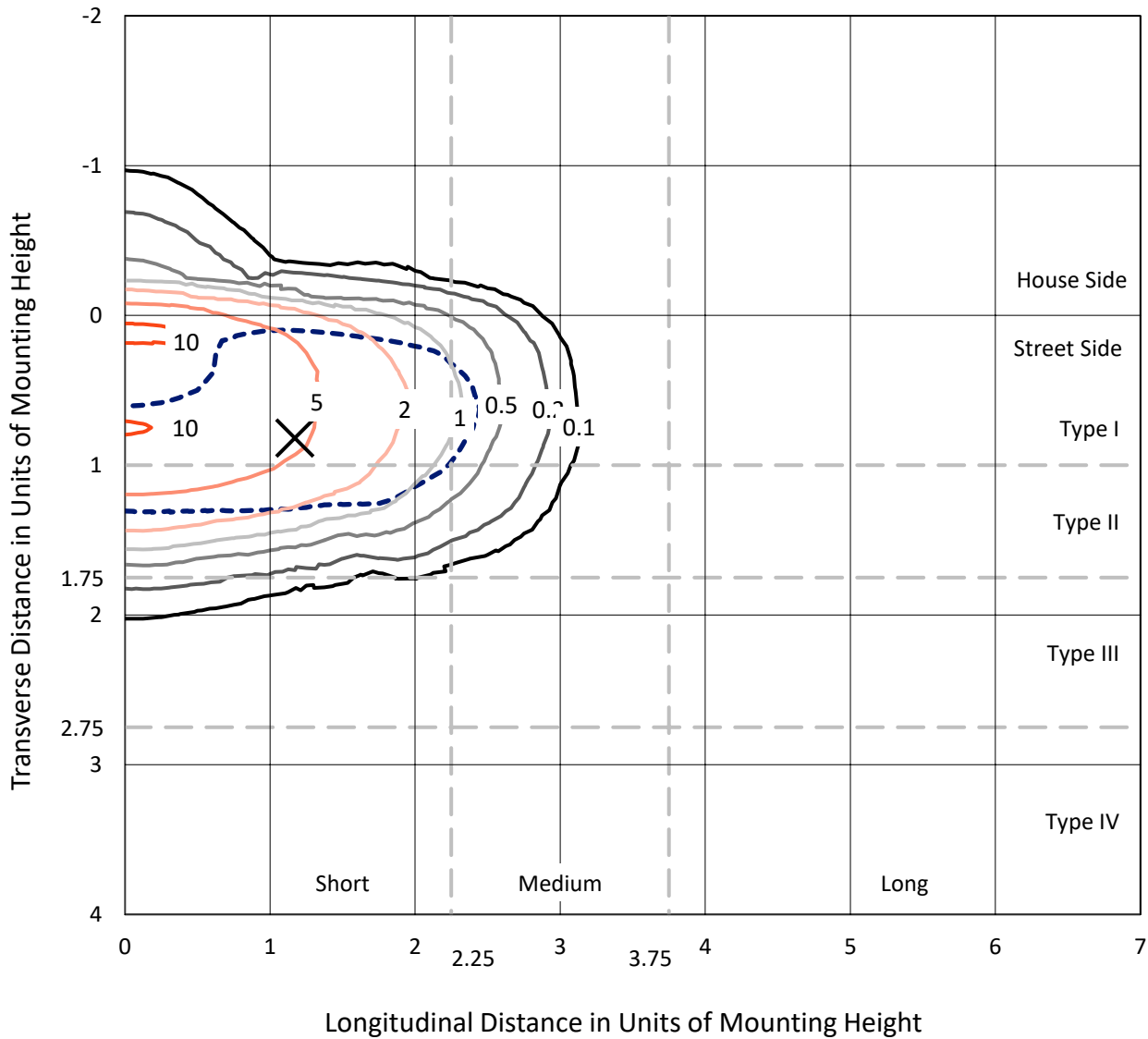
Lumens per Lamp: N/A  
Luminaire Lumens: 30728.3 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

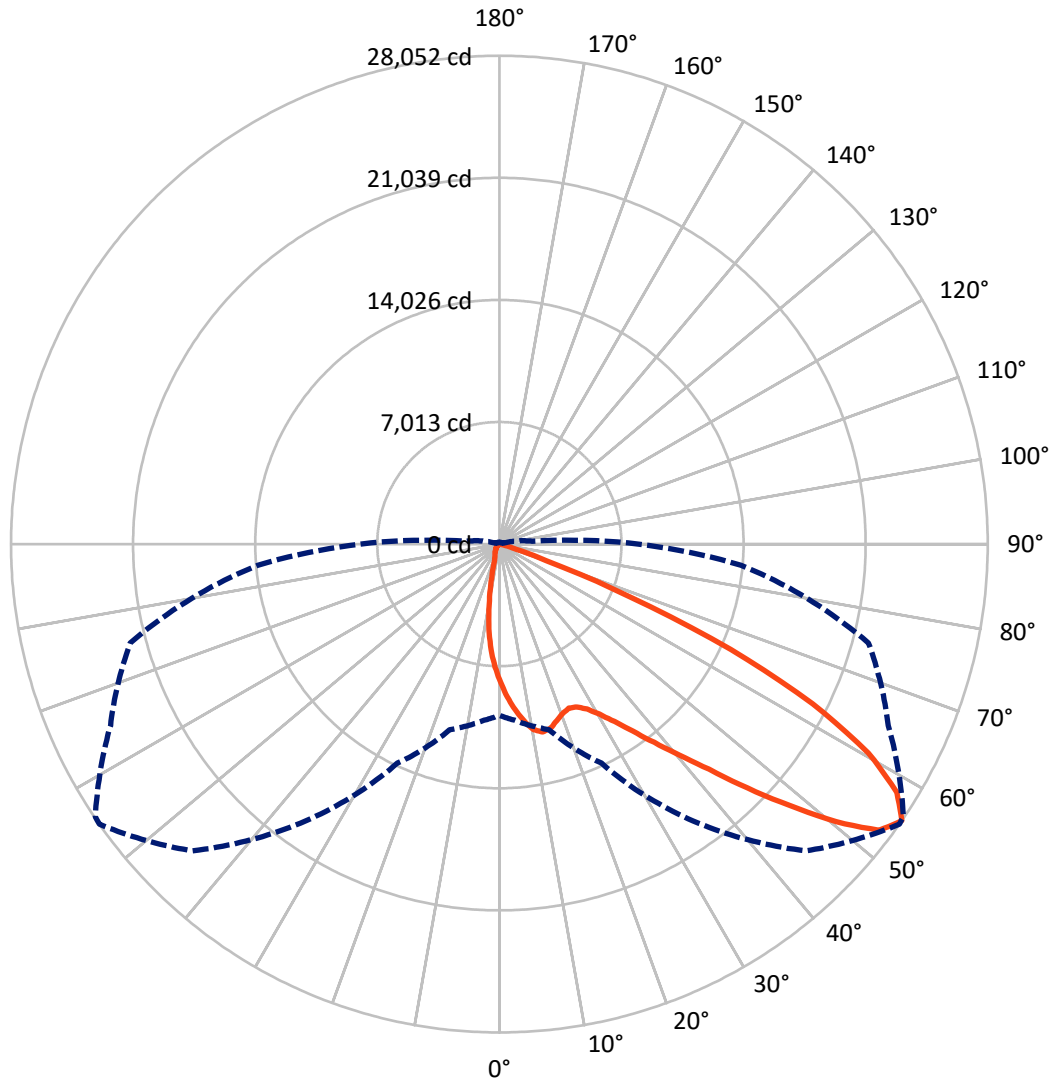
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P642754  
CATALOG NUMBER: GWS-SA6D-750-U-AFL-W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P642754

CATALOG NUMBER: GWS-SA6D-750-U-AFL-W-HSS

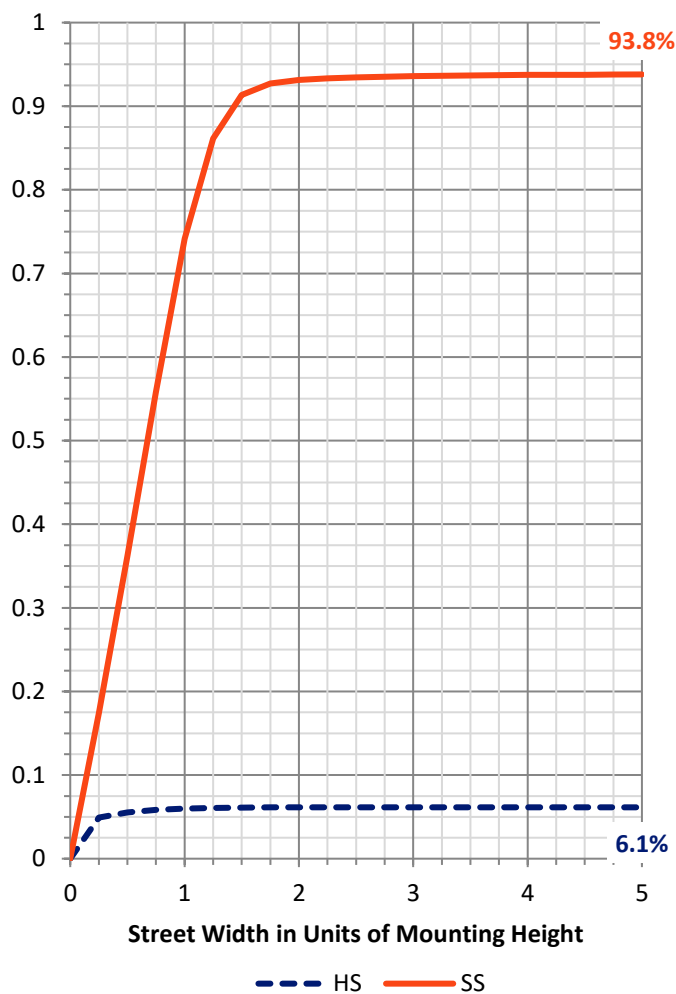
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1896.1	0.0	1896.1
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	28832.2	0.0	28832.2
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	30728.3	0.0	30728.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	701.6	2.3
10°-20°	1691.4	5.5
20°-30°	2816.8	9.2
30°-40°	4800.0	15.6
40°-50°	7835.3	25.5
50°-60°	8203.2	26.7
60°-70°	4137.5	13.5
70°-80°	522.6	1.7
80°-90°	19.8	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°	30728.3	100.0
0°-180°	30728.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P642754

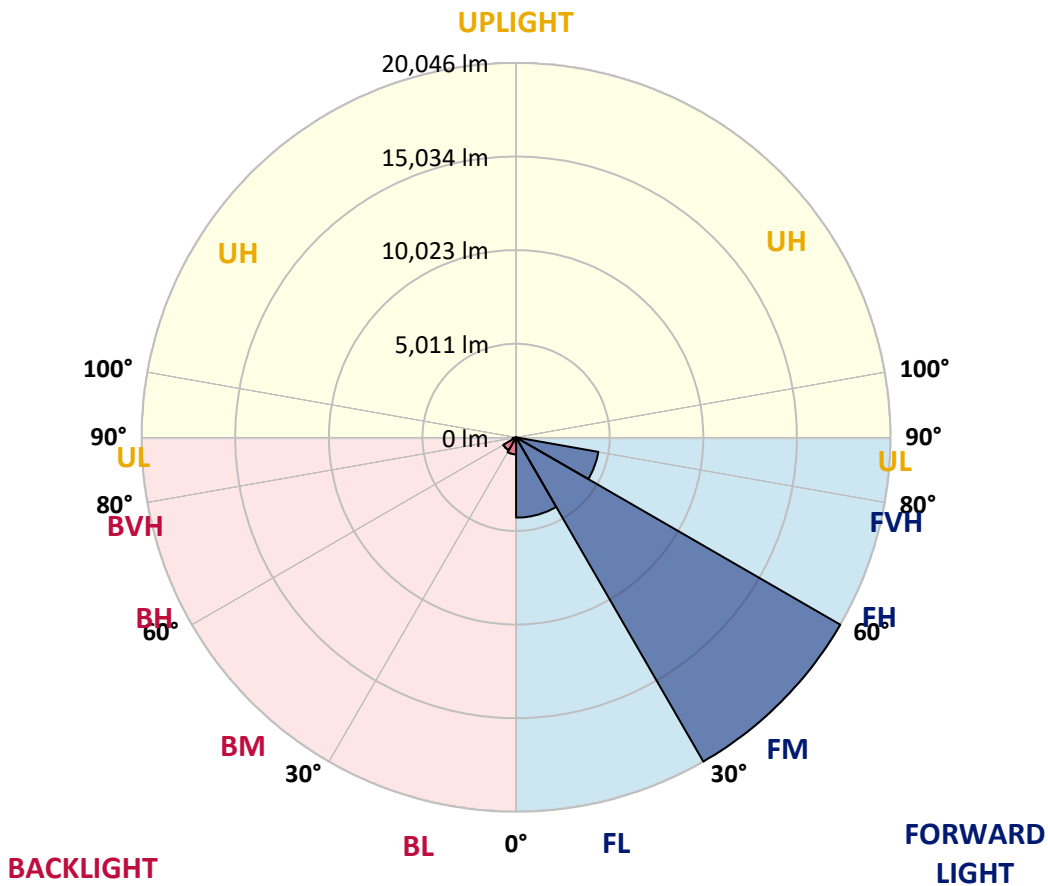
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4298.5	14.0			
FM (30°-60°)	20045.8	65.2			
FH (60°-80°)	4470.0	14.5			G2/5000
FVH (80°-90°)	18.0	0.1			G1/100
BL (0°-30°)	911.3	3.0	B2/1000		
BM (30°-60°)	792.8	2.6	B1/1000		
BH (60°-80°)	190.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7938.4	7938.4	7938.4	7938.4	7938.4	7938.4	7938.4	7938.4	7938.4	7938.4	7938.4
2.5°	9254.5	9209.8	9278.1	9199.3	9065.3	8952.4	8805.3	8752.7	8516.3	8293.0	8077.6
5°	10378.8	10391.9	10370.9	10260.5	10071.4	9861.3	9564.4	9498.8	9086.3	8660.8	8201.1
7.5°	10657.2	10649.3	10694.0	10736.0	10704.5	10599.4	10276.3	10210.6	9698.4	9060.1	8390.2
10°	9798.2	9803.5	9895.4	10179.1	10531.1	10896.2	10846.3	10809.6	10307.8	9511.9	8600.4
12.5°	8584.6	8631.9	8729.1	9133.6	9729.9	10560.0	11074.9	11111.6	10867.3	10008.4	8847.3
15°	8059.2	8069.7	8148.5	8392.8	8836.8	9861.3	10977.7	11080.1	11334.9	10507.5	9115.2
17.5°	8046.1	8059.2	8093.4	8201.1	8490.0	9312.2	10665.1	10843.7	11686.9	11043.4	9435.7
20°	8539.9	8532.1	8508.4	8450.6	8576.7	9131.0	10376.1	10573.1	11878.7	11566.1	9758.8
22.5°	9435.7	9425.2	9320.1	9081.1	8978.6	9296.5	10234.3	10412.9	11994.3	12031.1	10024.1
25°	10468.1	10541.6	10344.6	9982.1	9729.9	9719.4	10360.4	10486.5	12094.1	12443.5	10205.4
27.5°	11600.2	11623.9	11455.8	11048.6	10683.5	10397.1	10725.5	10820.1	12204.4	12811.2	10307.8
30°	12842.8	12834.9	12643.1	12170.3	11726.3	11313.9	11340.2	11377.0	12461.9	13231.5	10420.8
32.5°	14395.2	14429.4	14087.9	13444.3	12911.1	12341.0	12144.0	12149.3	12926.8	13772.7	10591.5
35°	16504.6	16420.5	15968.7	15051.9	14143.1	13528.4	13192.1	13163.2	13643.9	14500.3	10888.4
37.5°	18514.2	18522.0	18049.2	17040.5	15892.5	14923.2	14447.8	14369.0	14652.7	15509.0	11382.2
40°	19909.0	19935.3	19738.3	19210.3	17994.0	16622.8	15924.1	15842.6	15960.8	16785.7	12028.4
42.5°	20647.2	20720.7	20775.9	20899.4	19977.3	18745.3	17670.9	17663.1	17539.6	18241.0	12777.1
45°	20676.1	20786.4	21122.6	21965.9	22070.9	21167.3	19998.3	19822.3	19346.9	19798.7	13446.9
47.5°	19533.4	19788.2	20502.7	22173.4	23276.7	23576.1	22417.7	22310.0	20975.5	21030.7	13948.7
50°	16869.7	17135.1	18451.1	21109.5	23581.4	25488.5	25073.4	24850.2	22336.3	21845.0	14190.3
52.5°	14137.8	14379.5	15272.6	18577.2	22317.9	26090.0	27311.5	27046.2	23557.7	22128.7	14090.5
55°	9837.6	10160.7	11032.8	13885.6	19407.3	24918.5	28052.3	27997.2	24647.9	21950.1	13935.5
57.5°	4822.9	5143.4	6012.9	8561.0	14376.8	21755.7	26920.1	27211.7	25299.4	21758.3	13809.4
60°	2014.8	2146.2	2445.6	3756.4	8043.5	16441.6	24364.2	24768.7	24900.1	21498.3	13796.3
62.5°	1169.0	1190.0	1221.5	1557.7	3128.6	9425.2	20211.1	20786.4	22801.2	21154.2	13588.8
65°	882.6	890.5	877.4	956.2	1292.4	3575.2	14602.8	15385.6	19031.7	19809.2	12769.2
67.5°	725.0	725.0	690.9	706.6	811.7	1339.7	8061.9	9154.6	14082.6	16281.3	10544.2
70°	577.9	591.0	575.3	554.3	580.5	740.8	2868.5	3556.8	8201.1	9614.3	6149.5
72.5°	438.7	438.7	465.0	449.2	430.8	465.0	1000.8	1124.3	3291.5	4008.6	2219.7
75°	338.9	349.4	367.8	352.0	325.7	275.8	480.7	509.6	993.0	932.5	496.5
77.5°	173.4	176.0	233.8	257.4	241.7	168.1	210.1	231.2	323.1	289.0	183.9
80°	105.1	110.3	131.3	202.3	160.2	89.3	86.7	91.9	152.4	131.3	76.2
82.5°	44.7	47.3	73.6	73.6	65.7	34.1	34.1	34.1	73.6	68.3	31.5
85°	0.0	0.0	13.1	10.5	10.5	13.1	13.1	13.1	18.4	26.3	15.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	7.9	7.9
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: P642754

CATALOG NUMBER: GWS-SA6D-750-U-AFL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7938.4	7938.4	7938.4	7938.4	7938.4	7938.4	7938.4	7938.4	7938.4	7938.4	7938.4
2.5°	7938.4	7770.3	7544.4	7339.5	7063.6	6908.7	6693.3	6517.3	6367.5	6320.2	6299.2
5°	7941.0	7652.1	7168.7	6685.4	6091.7	5624.1	5143.4	4762.5	4449.9	4350.1	4323.8
7.5°	7993.6	7568.0	6785.2	5907.8	4914.9	4095.3	3362.4	2705.7	2401.0	2298.5	2277.5
10°	8064.5	7497.1	6341.3	4975.3	3548.9	2495.5	1767.9	1347.6	1147.9	1037.6	1053.4
12.5°	8156.4	7439.3	5850.0	3966.6	2348.4	1371.2	971.9	814.3	772.3	751.3	740.8
15°	8279.9	7371.0	5240.6	2965.7	1439.5	882.6	748.7	706.6	690.9	680.4	677.7
17.5°	8406.0	7292.2	4620.7	2085.7	956.2	732.9	672.5	651.5	641.0	633.1	630.4
20°	8539.9	7158.2	3893.0	1436.9	753.9	659.3	619.9	596.3	583.2	570.0	567.4
22.5°	8597.7	6942.8	3196.9	1006.1	669.9	606.8	556.9	528.0	512.2	501.7	501.7
25°	8542.6	6593.4	2477.1	764.4	609.4	549.0	499.1	467.6	454.4	443.9	443.9
27.5°	8395.5	6144.2	1807.3	633.1	543.8	488.6	441.3	412.4	401.9	396.7	396.7
30°	8232.6	5576.8	1274.0	543.8	470.2	425.6	386.1	367.8	365.1	359.9	359.9
32.5°	8093.4	5046.2	877.4	478.1	415.0	370.4	344.1	336.2	338.9	333.6	336.2
35°	8017.2	4526.1	651.5	425.6	370.4	328.4	315.2	315.2	315.2	312.6	312.6
37.5°	8048.7	4013.9	530.6	388.8	331.0	299.5	286.3	291.6	296.8	296.8	296.8
40°	8206.3	3559.4	470.2	354.6	296.8	273.2	262.7	270.6	278.4	283.7	283.7
42.5°	8406.0	3191.6	425.6	325.7	273.2	246.9	241.7	249.6	257.4	262.7	262.7
45°	8532.1	2821.3	380.9	289.0	249.6	218.0	218.0	228.5	225.9	228.5	228.5
47.5°	8589.9	2527.0	336.2	249.6	212.8	189.1	191.8	197.0	191.8	197.0	197.0
50°	8448.0	2230.2	296.8	207.5	176.0	165.5	170.7	168.1	168.1	178.6	178.6
52.5°	8187.9	2009.6	262.7	176.0	149.7	147.1	152.4	141.9	144.5	144.5	141.9
55°	7996.2	1883.5	233.8	152.4	128.7	131.3	128.7	110.3	99.8	89.3	86.7
57.5°	7901.6	1833.6	212.8	136.6	115.6	115.6	105.1	76.2	57.8	44.7	39.4
60°	7880.6	1773.1	191.8	118.2	102.4	97.2	76.2	44.7	28.9	21.0	18.4
62.5°	7681.0	1626.0	173.4	94.6	89.3	78.8	47.3	26.3	15.8	10.5	7.9
65°	7026.9	1337.1	155.0	73.6	68.3	57.8	28.9	15.8	7.9	2.6	0.0
67.5°	5590.0	948.3	136.6	55.2	47.3	36.8	18.4	10.5	2.6	0.0	0.0
70°	3223.2	512.2	113.0	39.4	31.5	23.6	13.1	5.3	0.0	0.0	0.0
72.5°	1077.0	239.0	86.7	26.3	23.6	18.4	7.9	2.6	0.0	0.0	0.0
75°	236.4	141.9	57.8	18.4	15.8	13.1	5.3	0.0	0.0	0.0	0.0
77.5°	89.3	99.8	28.9	13.1	10.5	7.9	2.6	0.0	0.0	0.0	0.0
80°	34.1	65.7	13.1	7.9	7.9	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	18.4	26.3	7.9	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.5	13.1	5.3	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	2.6	2.6	2.6	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)