

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P459803

Luminaire Tested: **GWC-SA2A-AMB-U-SL2**

Issue Date: 1/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459803  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2A-AMB-U-SL2  
Description: GALLEON WALL LUMINAIRE  
(2) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2225 lumens  
Efficiency: N/A  
Efficacy: 53.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1

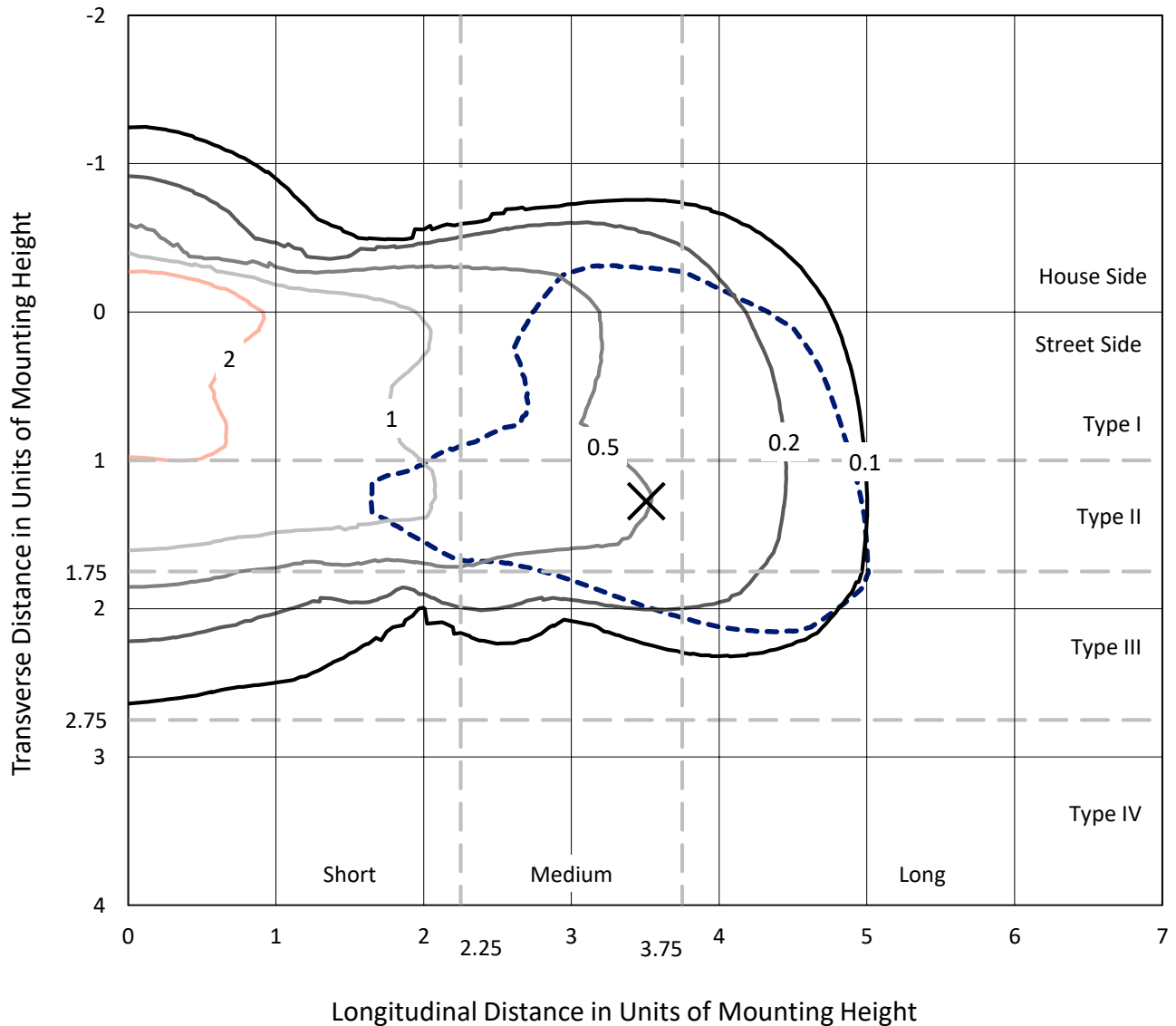
Input Watts (W): 41.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P459803  
 CATALOG NUMBER: GWC-SA2A-AMB-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

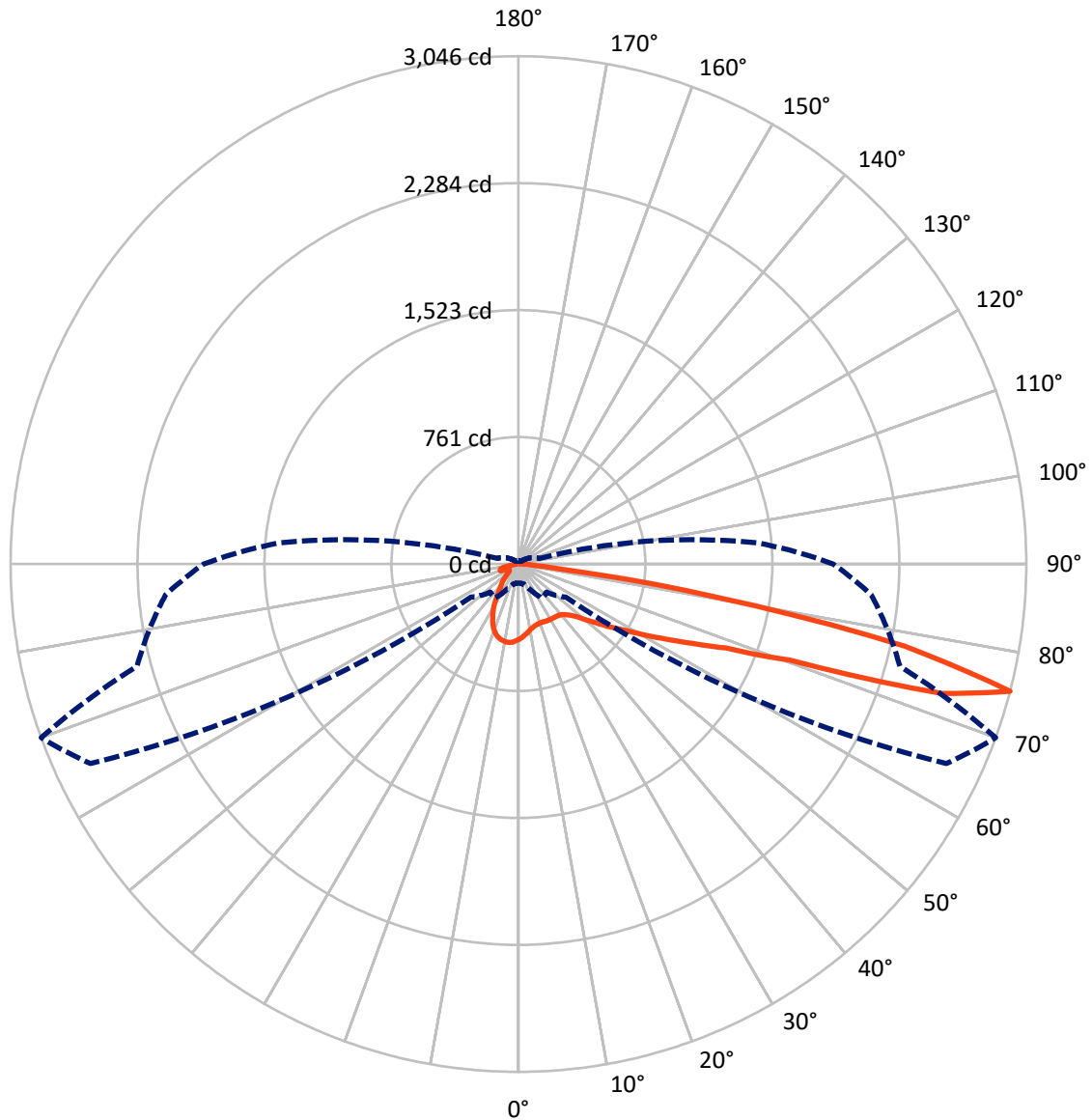
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P459803  
CATALOG NUMBER: GWC-SA2A-AMB-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical



REPORT NUMBER: P459803

CATALOG NUMBER: GWC-SA2A-AMB-U-SL2

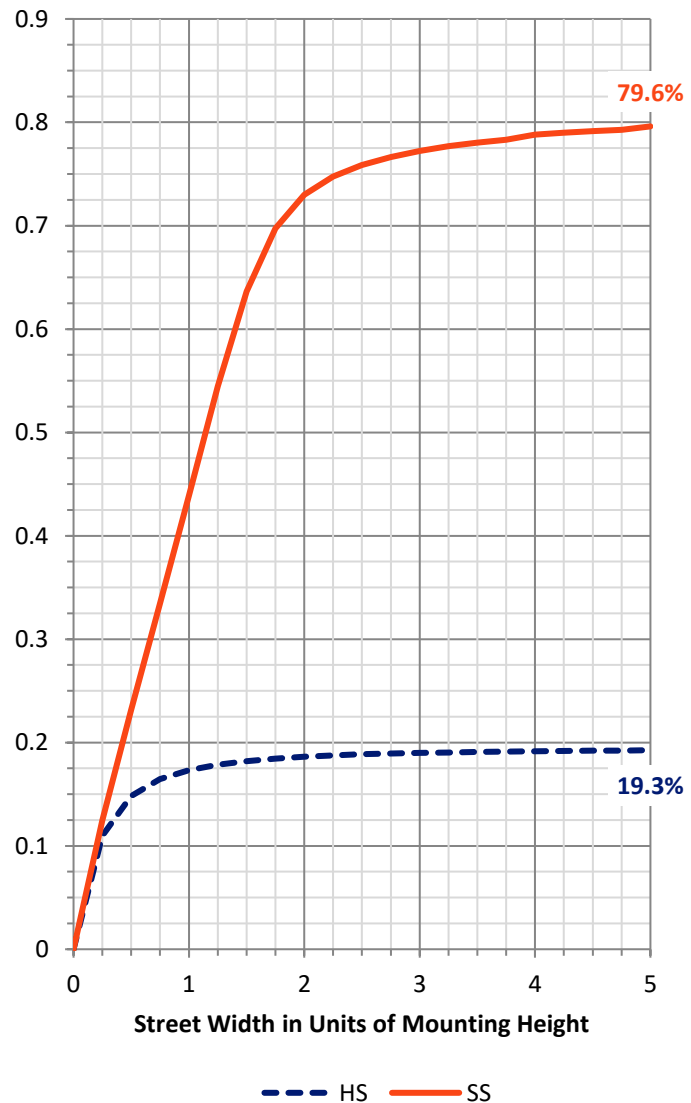
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	434.2	0.0	434.2
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	1790.9	0.0	1790.9
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	2225.0	0.0	2225.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.0	1.8
10°-20°	99.6	4.5
20°-30°	133.9	6.0
30°-40°	176.1	7.9
40°-50°	251.3	11.3
50°-60°	391.4	17.6
60°-70°	511.0	23.0
70°-80°	543.0	24.4
80°-90°	77.8	3.5
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°	2225.0	100.0
0°-180°	2225.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P459803

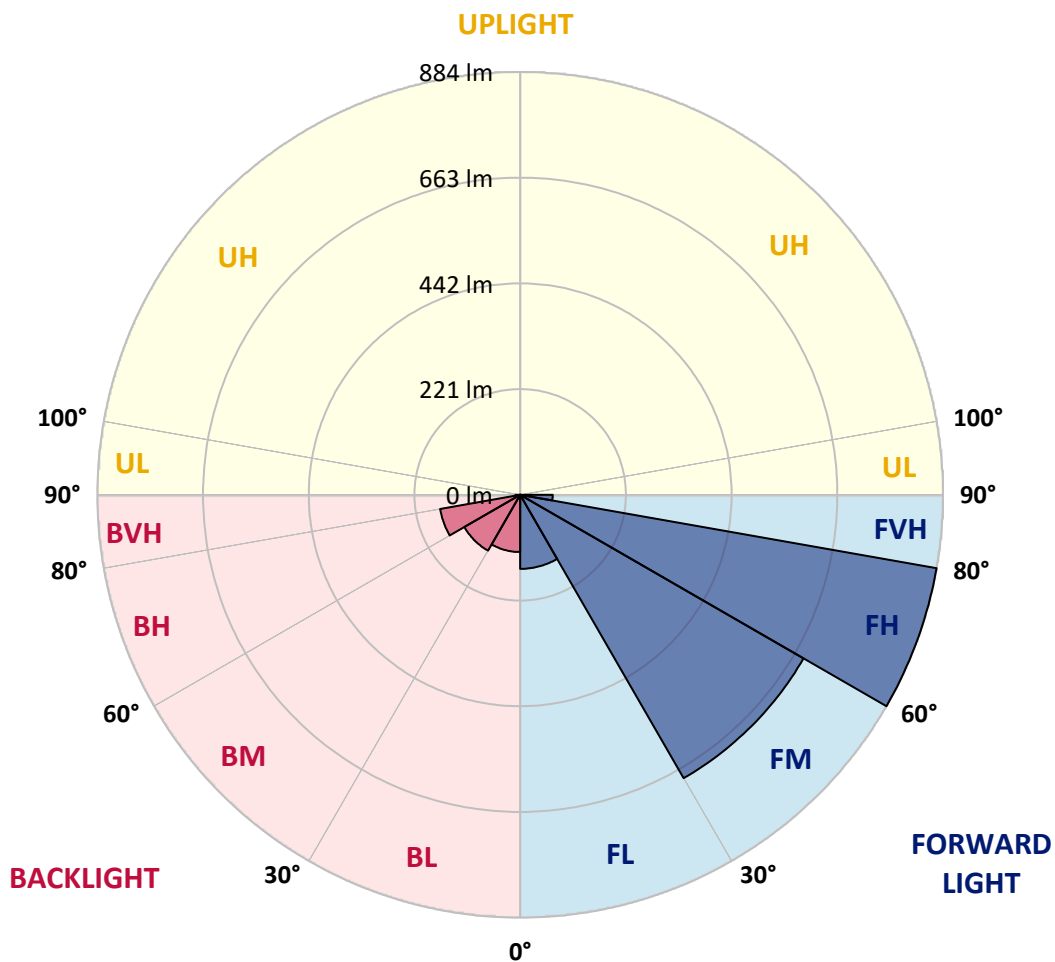
CATALOG NUMBER: GWC-SA2A-AMB-U-SL2

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	154.8	7.0			
FM	(30°-60°)	684.0	30.7			
FH	(60°-80°)	884.0	39.7			G1/1800
FVH	(80°-90°)	68.0	3.1			G1/100
BL	(0°-30°)	119.6	5.4	B1/500		
BM	(30°-60°)	134.8	6.1	B0/220		
BH	(60°-80°)	170.0	7.6	B1/500		G1/500
BVH	(80°-90°)	9.8	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Medium





REPORT NUMBER: P459803

CATALOG NUMBER: GWC-SA2A-AMB-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	424.1	424.1	426.9	426.9	430.7	431.7	435.5	437.4	439.3	442.2	447.9
5°	393.6	392.6	395.5	400.2	405.0	409.8	416.4	423.1	426.0	430.7	440.3
7.5°	370.7	370.7	372.6	375.5	382.1	387.8	398.3	405.9	412.6	419.3	432.6
10°	353.5	353.5	355.4	358.3	365.0	369.7	379.3	392.6	398.3	407.9	425.0
12.5°	337.3	339.2	340.2	344.0	348.8	355.4	365.0	379.3	388.8	400.2	423.1
15°	329.7	329.7	330.7	333.5	338.3	345.0	356.4	371.6	382.1	395.5	424.1
17.5°	327.8	326.9	325.9	326.9	331.6	338.3	349.7	366.9	378.3	393.6	428.8
20°	328.8	327.8	326.9	324.9	326.9	333.5	347.8	365.0	376.4	392.6	436.4
22.5°	333.5	333.5	331.6	327.8	326.9	331.6	346.9	365.0	377.4	393.6	444.1
25°	346.9	345.9	344.0	336.4	330.7	332.6	346.9	366.9	379.3	395.5	450.7
27.5°	361.2	361.2	359.3	352.6	341.1	336.4	348.8	369.7	382.1	397.4	458.4
30°	384.0	383.1	381.2	373.5	359.3	344.0	352.6	372.6	384.0	398.3	465.0
32.5°	411.7	411.7	412.6	403.1	382.1	357.3	356.4	374.5	385.0	399.3	472.7
35°	444.1	445.0	447.9	440.3	414.5	377.4	365.9	379.3	386.9	400.2	480.3
37.5°	467.9	468.8	479.3	481.2	450.7	404.0	381.2	388.8	390.7	402.1	487.9
40°	495.5	495.5	510.8	522.2	502.2	441.2	402.1	400.2	399.3	409.8	497.4
42.5°	526.0	529.8	543.2	562.2	553.7	484.1	431.7	420.2	415.5	423.1	512.7
45°	554.6	556.5	581.3	603.2	604.2	542.2	473.6	451.7	438.3	446.9	540.3
47.5°	586.1	588.9	619.4	654.7	661.3	604.2	521.3	490.8	473.6	482.2	580.3
50°	631.8	636.6	662.3	705.2	723.3	677.5	582.2	545.1	526.0	529.8	636.6
52.5°	705.2	704.2	716.6	758.5	802.4	758.5	664.2	611.8	586.1	591.8	709.0
55°	749.0	748.0	765.2	810.9	891.0	860.5	754.7	690.9	667.1	664.2	792.8
57.5°	709.9	711.8	741.4	812.8	951.0	1019.6	853.8	787.1	746.1	750.9	894.8
60°	593.7	582.2	615.6	712.8	932.9	1197.8	994.9	903.4	860.5	851.9	1023.4
62.5°	400.2	404.0	426.0	488.9	798.6	1246.4	1355.1	1048.2	989.1	973.9	1144.5
65°	301.1	300.2	301.1	311.6	432.6	1200.7	1727.7	1240.7	1148.3	1097.8	1272.2
67.5°	251.6	248.7	247.8	271.6	269.7	755.7	1851.5	1678.1	1343.6	1236.9	1396.0
70°	213.5	207.7	205.8	243.9	250.6	267.8	1837.2	2491.9	1725.8	1431.3	1559.9
72.5°	162.0	161.0	164.9	207.7	246.8	234.4	1106.4	2848.3	2653.9	1806.8	1898.2
75°	115.3	114.4	124.8	168.7	250.6	238.2	345.9	2831.2	3045.6	2368.0	2124.1
77.5°	76.2	75.3	84.8	121.0	235.4	239.2	225.8	2049.8	2368.0	2218.4	1741.0
80°	50.5	48.6	55.3	83.9	188.7	256.3	221.1	1014.9	1207.4	1027.3	578.4
82.5°	29.5	28.6	35.3	58.1	123.9	253.5	223.0	319.2	261.1	133.4	72.4
85°	15.2	16.2	22.9	35.3	80.0	223.9	238.2	163.9	76.2	54.3	36.2
87.5°	4.8	6.7	12.4	19.1	44.8	154.4	211.6	126.7	55.3	35.3	20.0
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: P459803

CATALOG NUMBER: GWC-SA2A-AMB-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	449.8	452.6	458.4	465.0	471.7	474.6	478.4	479.3	481.2	482.2	481.2
5°	446.9	453.6	466.0	474.6	480.3	479.3	478.4	475.5	474.6	473.6	471.7
7.5°	441.2	452.6	470.7	478.4	474.6	463.1	453.6	442.2	438.3	433.6	432.6
10°	438.3	454.5	472.7	471.7	456.5	434.5	415.5	397.4	385.0	377.4	373.5
12.5°	441.2	461.2	476.5	459.3	432.6	399.3	365.9	338.3	310.7	301.1	296.4
15°	449.8	471.7	476.5	443.1	402.1	354.5	304.0	260.1	227.8	211.6	208.7
17.5°	460.3	480.3	469.8	423.1	366.9	298.3	238.2	182.0	157.2	150.6	149.6
20°	472.7	490.8	459.3	398.3	321.1	240.1	162.0	133.4	130.6	131.5	132.5
22.5°	483.1	495.5	442.2	365.0	266.8	161.0	113.4	107.7	113.4	121.0	122.9
25°	490.8	492.7	423.1	323.0	204.9	102.9	89.6	88.6	97.2	110.5	114.4
27.5°	495.5	483.1	397.4	278.3	125.8	80.0	73.4	76.2	82.9	92.4	94.3
30°	498.4	473.6	372.6	231.6	80.0	67.7	66.7	68.6	71.5	76.2	77.2
32.5°	499.3	464.1	345.9	172.5	67.7	61.9	61.9	63.8	64.8	67.7	67.7
35°	497.4	452.6	319.2	108.6	61.9	60.0	59.1	59.1	59.1	60.0	60.0
37.5°	492.7	441.2	287.8	72.4	59.1	57.2	56.2	56.2	55.3	55.3	55.3
40°	489.8	431.7	258.2	62.9	56.2	55.3	54.3	52.4	51.5	51.5	51.5
42.5°	492.7	426.9	222.0	60.0	54.3	53.4	51.5	49.6	49.6	49.6	49.6
45°	505.1	427.9	176.3	58.1	53.4	51.5	48.6	46.7	46.7	47.6	47.6
47.5°	528.9	436.4	136.3	56.2	51.5	49.6	45.7	44.8	44.8	44.8	44.8
50°	565.1	453.6	107.7	54.3	50.5	47.6	44.8	42.9	42.9	42.9	41.9
52.5°	616.5	485.0	84.8	53.4	49.6	46.7	42.9	41.0	40.0	40.0	39.1
55°	688.0	534.6	78.1	53.4	47.6	44.8	41.0	38.1	37.2	36.2	36.2
57.5°	783.3	605.1	77.2	52.4	44.8	41.9	38.1	35.3	34.3	34.3	33.4
60°	899.6	699.5	78.1	50.5	42.9	39.1	35.3	33.4	31.4	31.4	31.4
62.5°	1030.1	802.4	78.1	49.6	41.9	37.2	33.4	30.5	29.5	28.6	28.6
65°	1162.6	928.2	83.9	48.6	40.0	33.4	30.5	28.6	26.7	26.7	26.7
67.5°	1308.4	1081.6	114.4	48.6	38.1	30.5	27.6	25.7	24.8	24.8	24.8
70°	1497.1	1335.1	173.4	61.0	39.1	28.6	24.8	23.8	22.9	22.9	22.9
72.5°	1884.9	1627.6	138.2	84.8	45.7	25.7	21.9	21.0	21.0	20.0	20.0
75°	1886.8	1443.7	131.5	90.5	49.6	23.8	20.0	19.1	18.1	18.1	18.1
77.5°	1395.1	942.4	112.4	70.5	42.9	21.0	18.1	17.2	16.2	16.2	16.2
80°	411.7	243.0	70.5	51.5	27.6	17.2	15.2	14.3	13.3	13.3	13.3
82.5°	70.5	63.8	32.4	27.6	17.2	13.3	12.4	11.4	10.5	10.5	10.5
85°	34.3	33.4	18.1	15.2	11.4	9.5	9.5	8.6	7.6	7.6	7.6
87.5°	21.0	19.1	13.3	8.6	6.7	4.8	5.7	4.8	4.8	3.8	3.8
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)