

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: P594517

Luminaire Tested: **ISS-PA1A-AMB-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594517  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1A-AMB-U-T2U-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 966 lumens  
Efficiency: N/A  
Efficacy: 30.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0

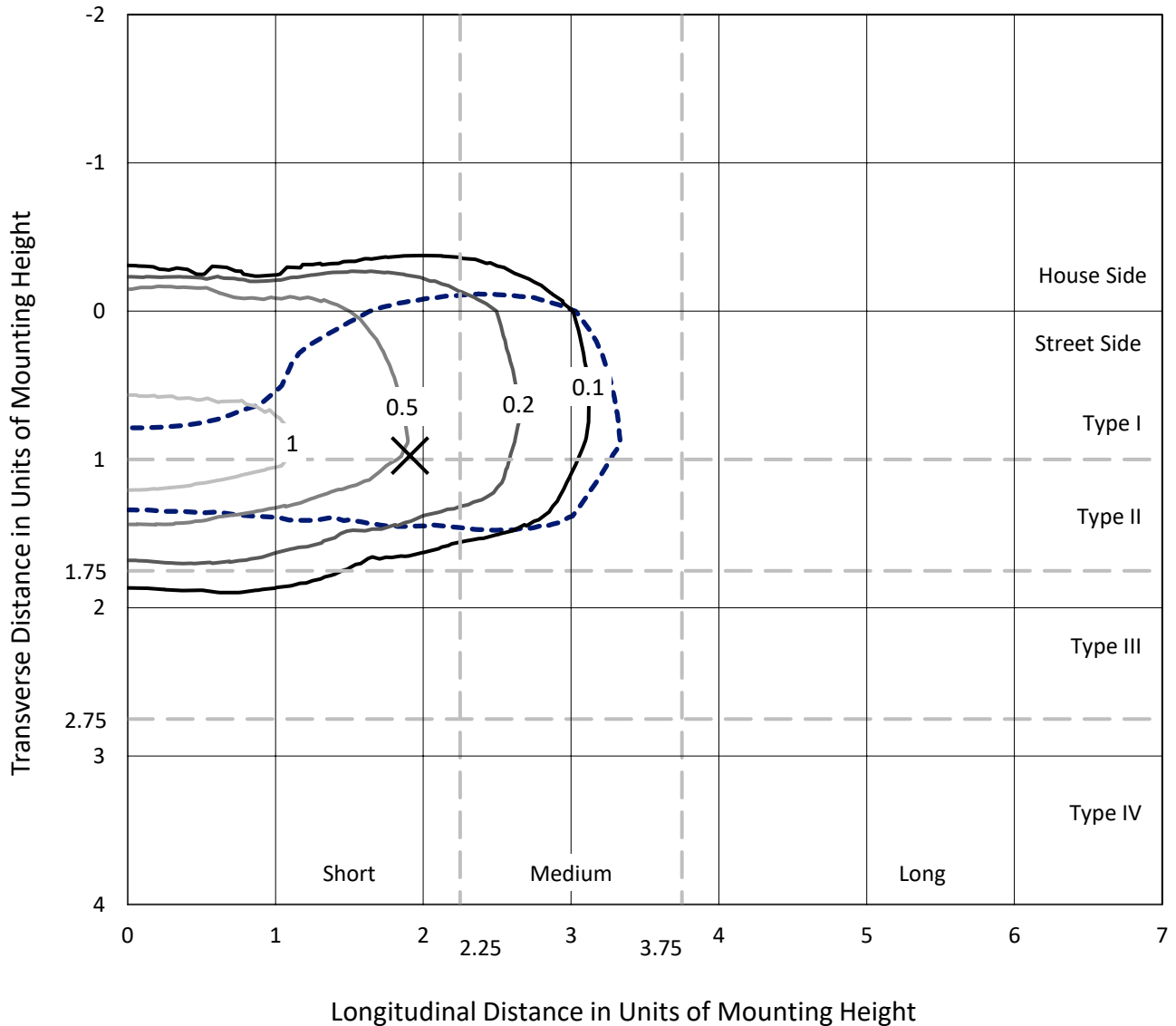
Input Watts (W): 31.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

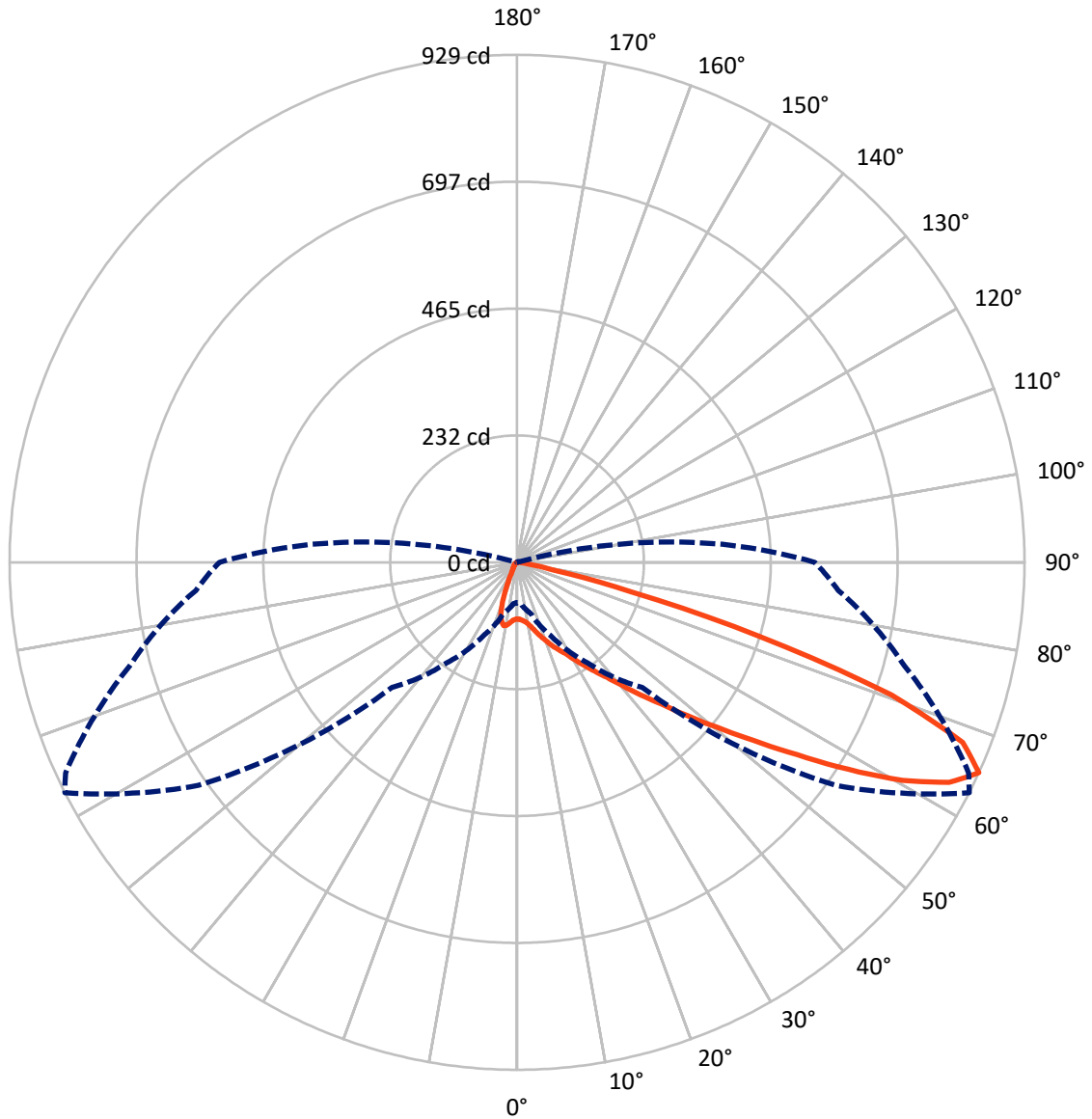
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 1.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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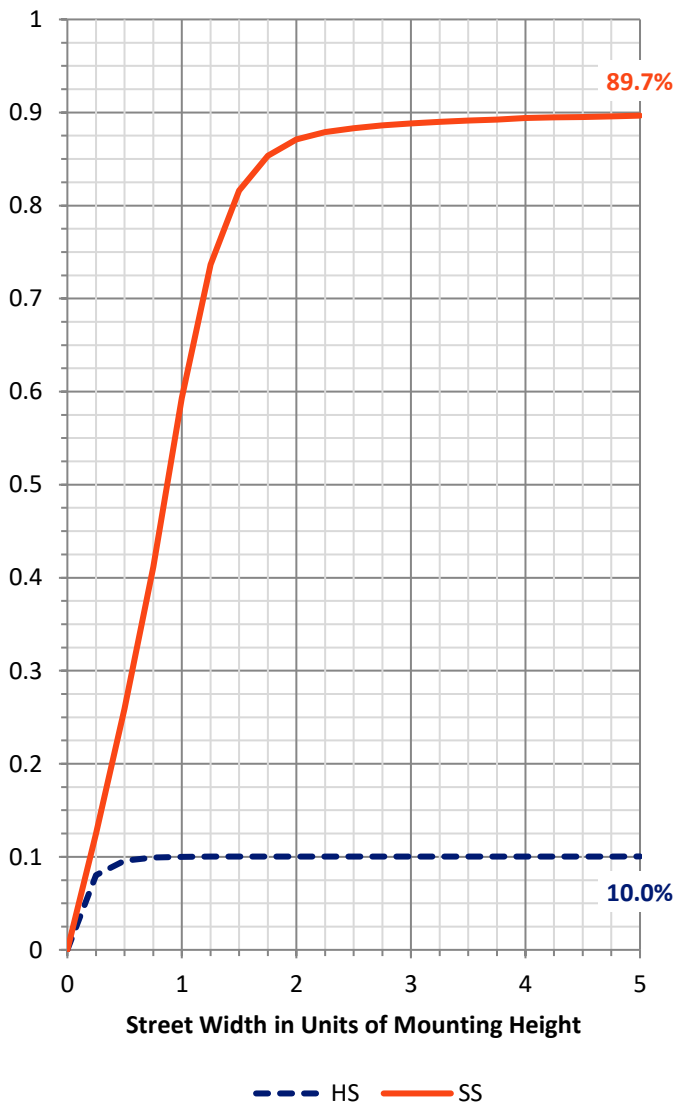
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	97.9	0.0	97.9
	% Fixture	10.1	0.0	10.1
<b>Street Side</b>	Lumens	868.1	0.0	868.1
	% Fixture	89.9	0.0	89.9
<b>Total</b>	Lumens	966.0	0.0	966.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.7	1.0
10°-20°	27.1	2.8
20°-30°	48.3	5.0
30°-40°	96.0	9.9
40°-50°	195.5	20.2
50°-60°	268.7	27.8
60°-70°	231.4	24.0
70°-80°	84.2	8.7
80°-90°	5.1	0.5
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°	966.0	100.0
0°-180°	966.0	100.0

**Coefficient of Utilization**

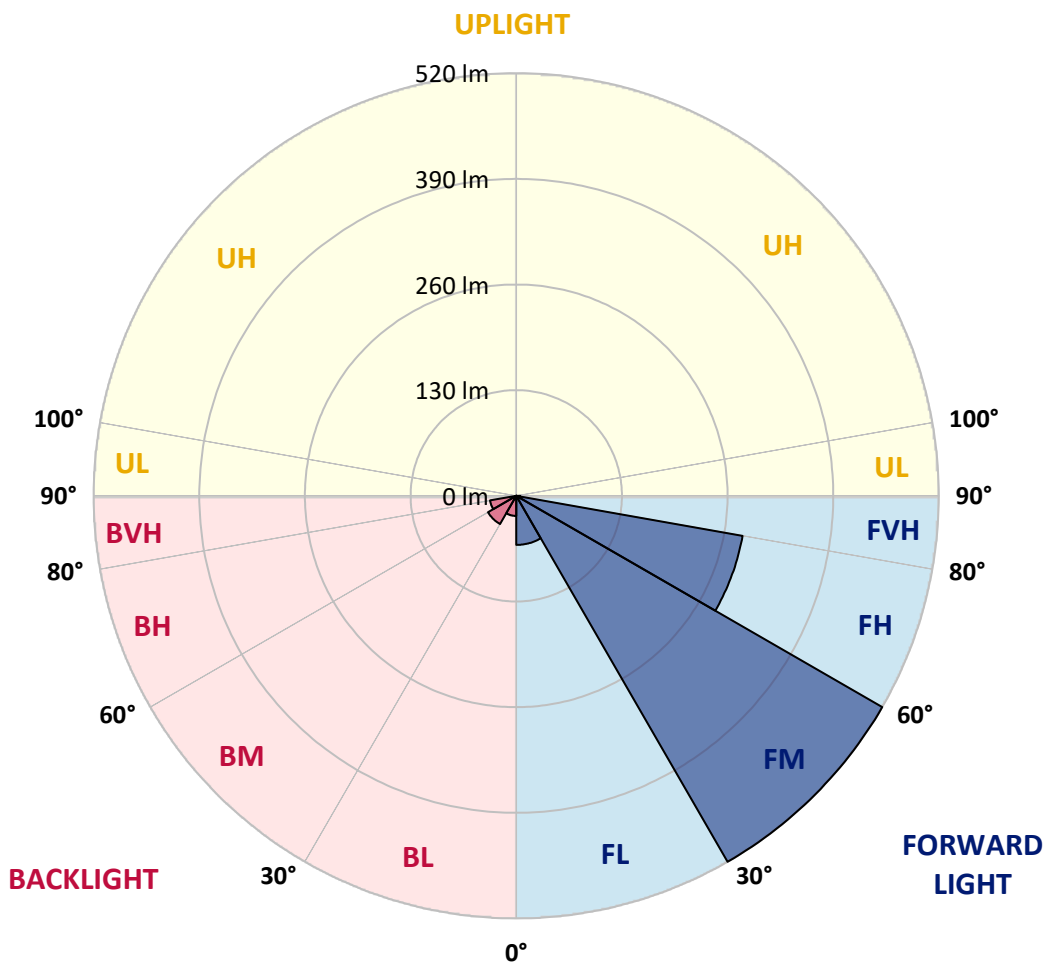


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	60.4	6.3			
FM (30°-60°)	520.1	53.8			
FH (60°-80°)	282.8	29.3			G0/660
FVH (80°-90°)	4.9	0.5			G0/10
BL (0°-30°)	24.7	2.6	B0/110		
BM (30°-60°)	40.1	4.2	B0/220		
BH (60°-80°)	32.8	3.4	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7
2.5°	102.7	102.7	102.7	102.7	103.7	103.7	104.8	104.8	104.8	104.8	104.8
5°	94.1	94.1	95.2	96.2	99.4	102.7	104.8	106.9	106.9	109.1	110.1
7.5°	90.9	90.9	92.0	94.1	97.3	100.5	105.9	110.1	111.2	114.4	116.6
10°	94.1	94.1	95.2	97.3	100.5	104.8	110.1	115.5	116.6	121.9	125.1
12.5°	99.4	99.4	100.5	101.6	106.9	111.2	118.7	123.0	124.0	129.4	132.6
15°	106.9	106.9	106.9	108.0	111.2	118.7	126.2	132.6	133.7	137.9	140.1
17.5°	114.4	114.4	115.5	115.5	118.7	124.0	135.8	143.3	145.4	148.6	148.6
20°	123.0	123.0	124.0	125.1	127.2	132.6	144.4	154.0	157.2	161.5	157.2
22.5°	133.7	133.7	133.7	134.7	137.9	141.1	152.9	166.8	167.9	172.2	163.6
25°	146.5	146.5	145.4	146.5	148.6	154.0	163.6	177.5	180.7	182.8	168.9
27.5°	170.0	172.2	164.7	160.4	161.5	165.7	175.4	189.3	193.5	195.7	177.5
30°	224.6	223.5	208.5	187.1	175.4	178.6	190.3	206.4	210.7	210.7	186.1
32.5°	291.9	286.6	268.4	235.2	202.1	195.7	208.5	224.6	229.9	226.7	196.8
35°	361.4	359.3	333.6	296.2	247.0	219.2	227.8	244.9	249.1	247.0	211.7
37.5°	435.2	435.2	409.5	363.6	304.7	256.6	250.2	267.3	271.6	270.5	228.8
40°	518.6	517.5	494.0	442.7	374.3	309.0	281.2	296.2	301.5	299.4	250.2
42.5°	581.7	582.8	569.9	533.6	457.7	374.3	322.9	331.5	335.8	334.7	278.0
45°	622.3	624.5	621.3	614.8	552.8	460.9	381.7	370.0	374.3	374.3	308.0
47.5°	620.2	620.2	633.0	657.6	645.9	568.9	449.1	419.2	420.2	419.2	344.3
50°	562.4	565.7	592.4	650.1	703.6	690.8	528.2	474.8	472.6	469.4	381.7
52.5°	483.3	483.3	515.4	590.3	707.9	794.5	624.5	541.1	535.7	520.7	419.2
55°	392.4	399.9	434.1	499.4	645.9	827.6	723.9	621.3	606.3	571.0	459.8
57.5°	273.7	285.5	346.5	404.2	537.9	779.5	815.9	715.4	688.6	620.2	499.4
60°	180.7	187.1	245.9	317.6	419.2	655.5	858.6	810.5	771.0	664.0	534.6
62.5°	118.7	121.9	158.3	237.4	310.1	487.6	833.0	887.5	850.1	702.5	564.6
65°	73.8	75.9	97.3	149.7	224.6	324.0	712.2	929.2	912.1	734.6	590.3
67.5°	52.4	52.4	59.9	82.3	144.4	201.0	511.1	880.0	899.3	760.3	611.6
70°	43.8	46.0	55.6	52.4	88.8	111.2	318.6	727.1	767.8	721.8	583.8
72.5°	33.1	34.2	43.8	56.7	58.8	60.9	136.9	463.0	526.1	577.4	474.8
75°	23.5	24.6	33.1	42.8	46.0	39.6	48.1	214.9	265.2	348.6	284.4
77.5°	17.1	18.2	23.5	32.1	51.3	26.7	23.5	68.4	90.9	148.6	132.6
80°	9.6	10.7	16.0	22.5	29.9	20.3	13.9	25.7	29.9	46.0	34.2
82.5°	6.4	6.4	9.6	17.1	19.2	16.0	8.6	12.8	13.9	17.1	6.4
85°	2.1	2.1	7.5	10.7	13.9	8.6	5.3	6.4	7.5	9.6	2.1
87.5°	1.1	1.1	4.3	5.3	5.3	2.1	2.1	3.2	3.2	5.3	1.1
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°	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7
2.5°	104.8	104.8	104.8	104.8	103.7	102.7	101.6	100.5	100.5	100.5	100.5
5°	110.1	109.1	109.1	106.9	105.9	103.7	101.6	99.4	97.3	96.2	96.2
7.5°	116.6	116.6	115.5	113.3	109.1	103.7	98.4	92.0	87.7	84.5	85.5
10°	125.1	125.1	123.0	118.7	110.1	98.4	81.3	65.2	55.6	49.2	48.1
12.5°	132.6	132.6	129.4	121.9	104.8	73.8	49.2	31.0	24.6	23.5	23.5
15°	141.1	140.1	135.8	119.8	83.4	43.8	23.5	20.3	19.2	18.2	18.2
17.5°	148.6	146.5	139.0	113.3	54.5	23.5	19.2	17.1	16.0	16.0	15.0
20°	154.0	151.8	139.0	95.2	29.9	18.2	16.0	15.0	12.8	12.8	12.8
22.5°	159.3	154.0	136.9	69.5	20.3	16.0	13.9	11.8	10.7	9.6	9.6
25°	161.5	155.0	132.6	44.9	17.1	13.9	11.8	9.6	8.6	7.5	7.5
27.5°	166.8	157.2	126.2	25.7	15.0	11.8	9.6	7.5	6.4	6.4	6.4
30°	173.2	158.3	113.3	19.2	12.8	9.6	7.5	5.3	5.3	5.3	4.3
32.5°	178.6	159.3	94.1	15.0	10.7	7.5	5.3	4.3	4.3	4.3	4.3
35°	190.3	164.7	73.8	12.8	8.6	6.4	4.3	3.2	3.2	3.2	3.2
37.5°	204.2	173.2	52.4	10.7	7.5	5.3	3.2	2.1	2.1	2.1	3.2
40°	220.3	185.0	33.1	9.6	6.4	4.3	2.1	2.1	2.1	2.1	2.1
42.5°	241.7	201.0	22.5	8.6	5.3	3.2	2.1	1.1	2.1	2.1	2.1
45°	266.3	222.4	16.0	7.5	4.3	2.1	2.1	1.1	1.1	1.1	1.1
47.5°	297.3	248.1	13.9	6.4	3.2	2.1	1.1	1.1	1.1	1.1	1.1
50°	331.5	274.8	11.8	5.3	3.2	2.1	1.1	0.0	0.0	1.1	1.1
52.5°	366.8	303.7	10.7	4.3	3.2	1.1	0.0	0.0	0.0	0.0	0.0
55°	403.1	330.4	9.6	4.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0
57.5°	439.5	351.8	8.6	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0
60°	475.8	366.8	7.5	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0
62.5°	511.1	375.3	6.4	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0
65°	545.3	377.5	6.4	2.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
67.5°	567.8	368.9	5.3	2.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
70°	537.9	327.2	4.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	419.2	234.2	3.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	256.6	71.6	2.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	112.3	28.9	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	29.9	10.7	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.1	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.0	0.0	0.0	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)