

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: P594724

Luminaire Tested: **ISS-PA1D-740-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594724  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1D-740-U-T2U-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 4000K, 800mA 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: 6267 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

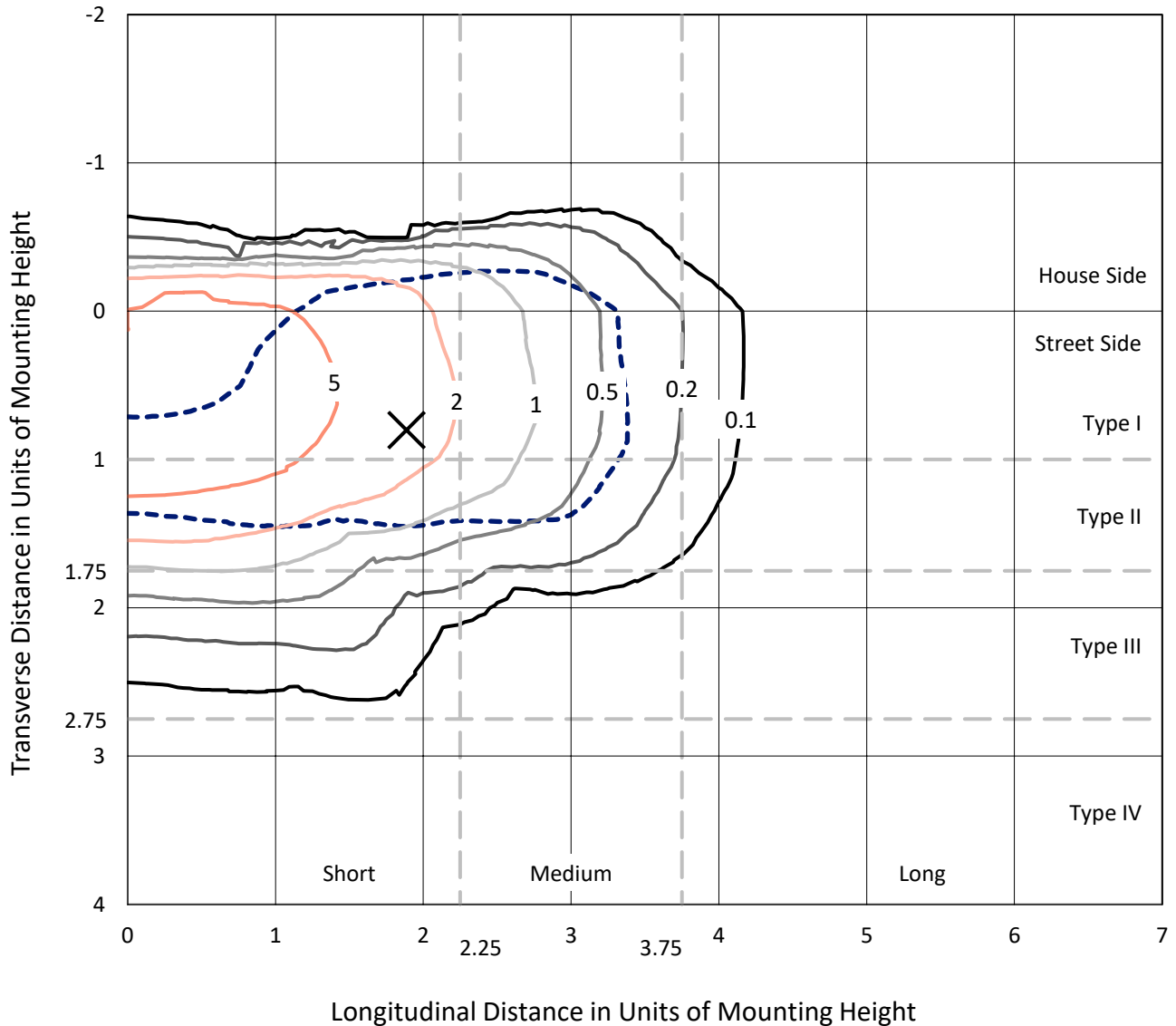
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P594724  
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### Iso-Footcandle Lines of Horizontal Illumination

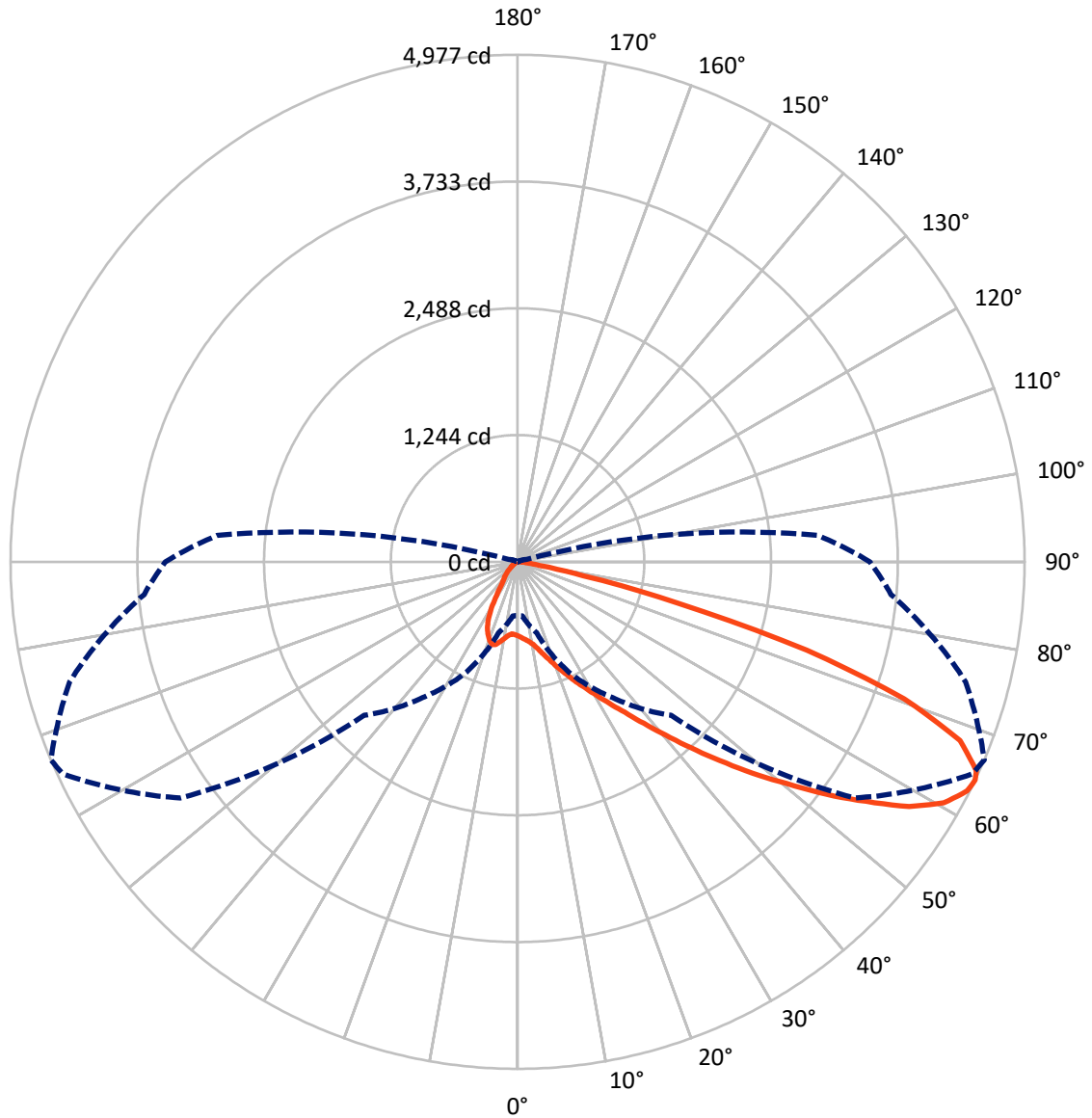
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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 CATALOG NUMBER: ISS-PA1D-740-U-T2U-HSS

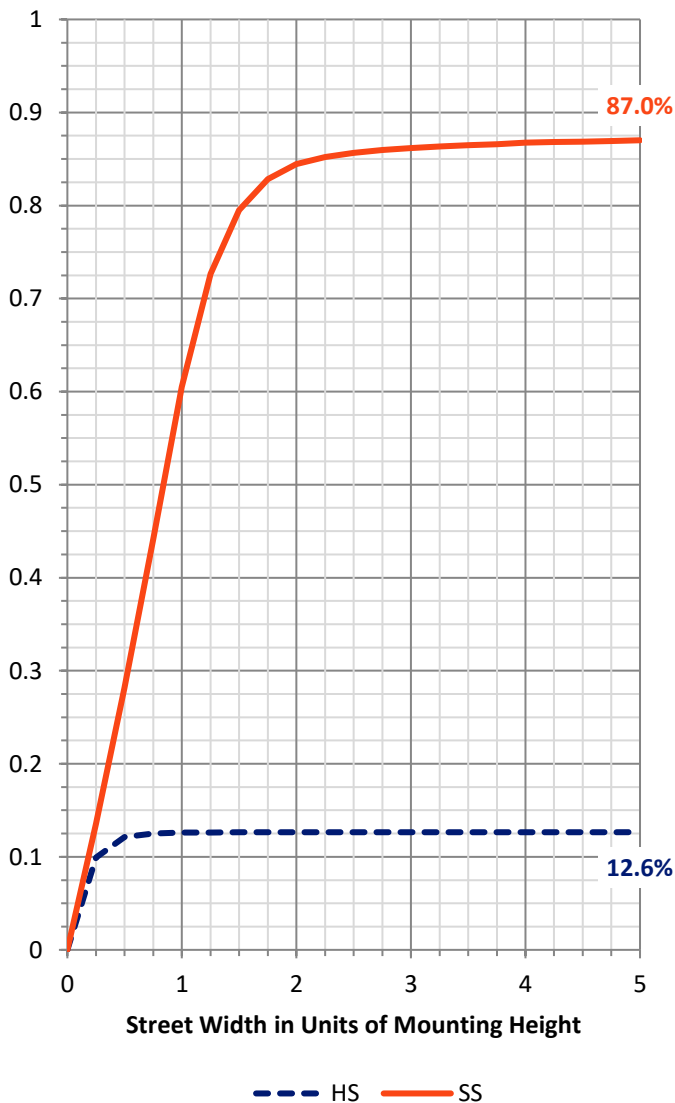
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	801.7	0.0	801.7
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	5465.3	0.0	5465.3
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	6267.0	0.0	6267.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.1	1.1
10°-20°	203.9	3.3
20°-30°	369.9	5.9
30°-40°	708.6	11.3
40°-50°	1306.1	20.8
50°-60°	1686.9	26.9
60°-70°	1381.8	22.0
70°-80°	507.9	8.1
80°-90°	32.8	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°	6267.0	100.0
0°-180°	6267.0	100.0

**Coefficient of Utilization**



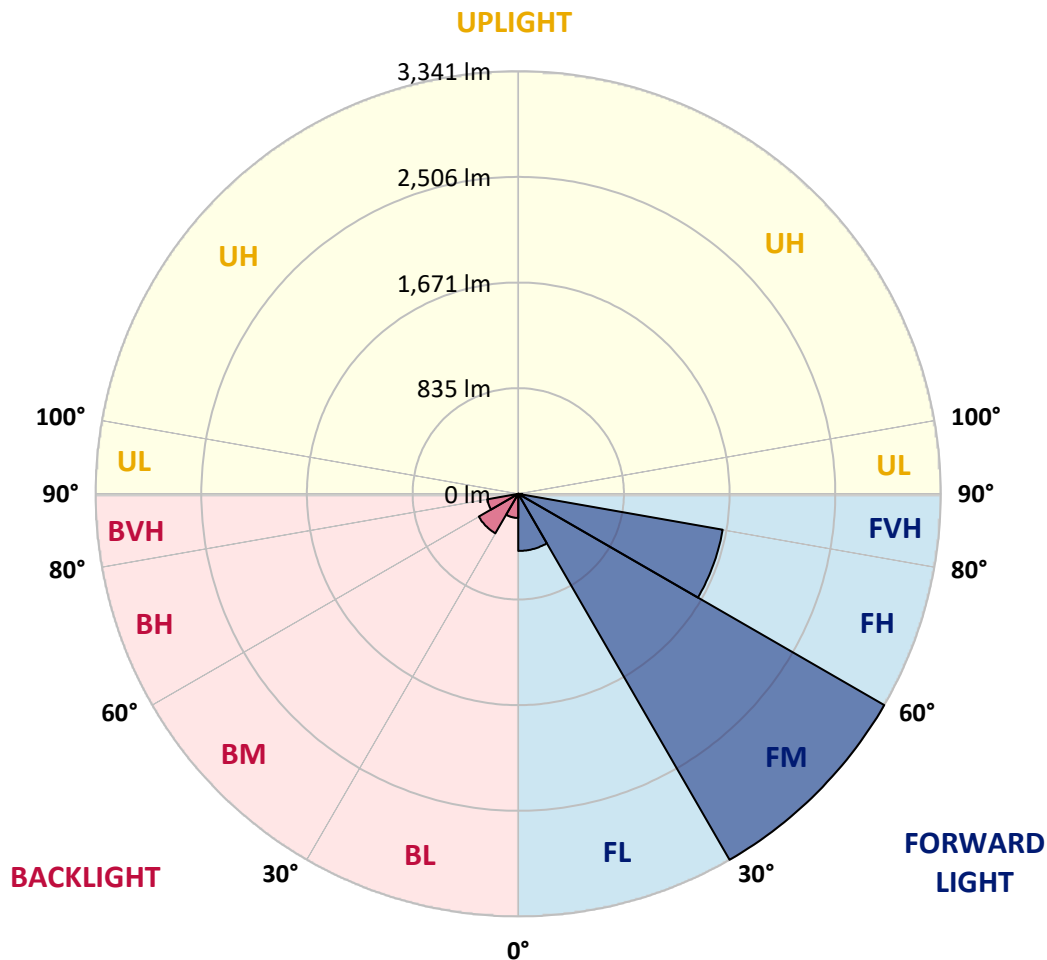
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 CATALOG NUMBER: ISS-PA1D-740-U-T2U-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	451.8	7.2			
FM (30°-60°)	3341.2	53.3			
FH (60°-80°)	1641.0	26.2			G1/1800
FVH (80°-90°)	31.3	0.5			G1/100
BL (0°-30°)	191.1	3.0	B1/500		
BM (30°-60°)	360.4	5.8	B1/1000		
BH (60°-80°)	248.7	4.0	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2
2.5°	754.0	754.0	758.4	756.2	756.2	751.9	745.4	747.6	745.4	743.3	736.8
5°	741.1	743.3	745.4	749.7	758.4	762.7	762.7	764.8	764.8	762.7	754.0
7.5°	734.7	739.0	743.3	747.6	758.4	764.8	775.6	788.5	788.5	790.7	782.1
10°	758.4	762.7	769.1	775.6	786.4	797.1	805.8	820.8	820.8	825.1	823.0
12.5°	807.9	807.9	810.1	814.4	829.5	842.4	857.5	870.4	872.5	874.7	868.2
15°	868.2	868.2	870.4	870.4	879.0	898.4	926.4	939.3	937.2	935.0	922.1
17.5°	937.2	937.2	937.2	939.3	943.6	954.4	986.7	1012.6	1010.4	1008.3	982.4
20°	1001.8	1006.1	1010.4	1012.6	1016.9	1025.5	1060.0	1090.1	1096.6	1088.0	1042.7
22.5°	1075.1	1077.2	1079.4	1085.8	1096.6	1100.9	1135.4	1180.6	1187.1	1176.3	1116.0
25°	1148.3	1152.6	1159.1	1167.7	1178.5	1200.0	1223.7	1284.0	1290.5	1277.6	1195.7
27.5°	1309.9	1307.7	1288.3	1273.3	1275.4	1290.5	1322.8	1387.4	1393.9	1381.0	1275.4
30°	1585.7	1559.8	1523.2	1456.4	1391.8	1398.2	1443.5	1505.9	1516.7	1499.5	1363.7
32.5°	1977.8	1951.9	1861.4	1714.9	1572.7	1525.3	1583.5	1643.8	1656.8	1637.4	1467.2
35°	2359.1	2352.6	2266.5	2089.8	1848.5	1717.1	1732.2	1809.7	1814.0	1790.3	1596.4
37.5°	2830.9	2807.2	2688.7	2490.5	2206.1	1971.3	1928.2	2001.5	2012.2	1984.2	1753.7
40°	3143.3	3134.7	3063.6	2923.5	2617.6	2322.5	2167.3	2238.4	2236.3	2195.4	1934.7
42.5°	3324.3	3328.6	3324.3	3257.5	3083.0	2744.7	2484.0	2488.4	2494.8	2451.7	2143.6
45°	3447.1	3447.1	3453.5	3507.4	3440.6	3248.9	2869.7	2772.7	2781.4	2714.6	2361.2
47.5°	3444.9	3457.8	3492.3	3617.3	3707.8	3718.5	3352.3	3104.5	3100.2	2999.0	2585.3
50°	3212.2	3203.6	3345.8	3625.9	3897.3	4106.3	3809.0	3455.7	3419.1	3294.1	2818.0
52.5°	2688.7	2716.7	2953.7	3365.2	3942.6	4369.2	4203.3	3839.2	3791.8	3587.1	3022.7
55°	2232.0	2262.1	2492.7	2895.5	3697.0	4461.8	4468.3	4246.4	4151.6	3841.3	3233.8
57.5°	1676.1	1734.3	2074.7	2453.9	3158.4	4231.3	4563.1	4636.3	4532.9	4086.9	3406.1
60°	1070.7	1105.2	1486.6	1954.1	2559.5	3628.0	4543.7	4862.5	4806.5	4311.0	3550.5
62.5°	700.2	719.6	982.4	1471.5	1949.8	2734.0	4313.2	4953.0	4953.0	4461.8	3658.2
64°	527.8	532.1	719.6	1195.7	1626.6	2130.7	4041.7	4925.0	4976.7	4552.3	3679.8
65°	418.0	420.1	562.3	993.2	1460.7	1747.2	3804.7	4864.7	4948.7	4586.8	3692.7
67.5°	293.0	299.5	364.1	573.1	1047.0	1008.3	2820.1	4580.3	4683.7	4597.5	3675.4
70°	254.2	262.8	305.9	374.9	747.6	586.0	1499.5	3903.8	4026.6	4283.0	3421.2
72.5°	193.9	204.7	256.4	316.7	525.7	396.4	579.5	2772.7	2966.6	3311.3	2824.4
75°	140.0	144.3	189.6	258.5	368.4	305.9	249.9	1430.5	1626.6	1954.1	1755.9
77.5°	88.3	94.8	129.3	193.9	329.6	232.7	148.7	521.4	657.1	851.0	767.0
80°	51.7	53.9	77.6	133.6	221.9	172.4	94.8	185.3	224.1	316.7	204.7
82.5°	30.2	32.3	49.6	90.5	144.3	133.6	60.3	94.8	105.6	120.6	43.1
85°	10.8	10.8	34.5	53.9	77.6	66.8	34.5	49.6	53.9	66.8	12.9
87.5°	2.2	2.2	17.2	28.0	28.0	10.8	17.2	21.5	25.9	36.6	4.3
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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 CATALOG NUMBER: ISS-PA1D-740-U-T2U-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2
2.5°	734.7	728.2	721.7	713.1	706.7	693.7	687.3	678.6	676.5	672.2	670.0
5°	751.9	741.1	726.0	704.5	691.6	672.2	659.3	646.3	644.2	639.9	637.7
7.5°	775.6	764.8	745.4	721.7	700.2	680.8	665.7	646.3	626.9	611.9	611.9
10°	814.4	801.4	775.6	754.0	728.2	687.3	616.2	551.5	510.6	484.7	476.1
12.5°	861.8	844.5	816.5	790.7	741.1	611.9	502.0	418.0	349.0	316.7	310.2
15°	911.3	896.2	868.2	829.5	680.8	510.6	366.3	237.0	170.2	140.0	144.3
17.5°	965.2	943.6	911.3	833.8	598.9	381.3	196.1	120.6	103.4	99.1	99.1
20°	1021.2	993.2	960.9	786.4	493.4	219.8	112.0	90.5	84.0	77.6	79.7
22.5°	1081.5	1047.0	997.5	715.3	353.3	118.5	86.2	73.3	64.6	62.5	62.5
25°	1146.2	1096.6	1034.1	633.4	204.7	90.5	71.1	58.2	51.7	49.6	47.4
27.5°	1215.1	1152.6	1042.7	525.7	116.3	75.4	56.0	45.2	38.8	36.6	36.6
30°	1277.6	1208.6	1023.4	390.0	88.3	62.5	45.2	34.5	30.2	30.2	30.2
32.5°	1361.6	1271.1	963.0	243.4	71.1	49.6	34.5	28.0	23.7	23.7	23.7
35°	1471.5	1363.7	902.7	129.3	58.2	40.9	28.0	21.5	19.4	19.4	19.4
37.5°	1622.3	1486.6	848.8	81.9	47.4	32.3	21.5	17.2	15.1	15.1	15.1
40°	1777.4	1633.1	773.4	62.5	38.8	25.9	17.2	12.9	10.8	10.8	12.9
42.5°	1971.3	1803.3	687.3	53.9	32.3	21.5	12.9	8.6	6.5	8.6	8.6
45°	2167.3	1982.1	566.6	45.2	28.0	17.2	8.6	4.3	4.3	6.5	6.5
47.5°	2369.9	2171.7	439.5	38.8	23.7	12.9	6.5	2.2	2.2	4.3	4.3
50°	2578.8	2359.1	327.5	34.5	19.4	10.8	4.3	2.2	0.0	2.2	2.2
52.5°	2787.8	2540.1	254.2	30.2	17.2	8.6	2.2	0.0	0.0	0.0	2.2
55°	2981.7	2703.8	202.5	25.9	15.1	6.5	2.2	0.0	0.0	0.0	0.0
57.5°	3145.5	2824.4	161.6	23.7	12.9	4.3	2.2	0.0	0.0	0.0	0.0
60°	3300.6	2919.2	125.0	19.4	10.8	4.3	2.2	0.0	0.0	0.0	0.0
62.5°	3410.4	2955.9	101.3	17.2	8.6	4.3	0.0	0.0	0.0	0.0	0.0
64°	3457.8	2960.2	88.3	15.1	8.6	4.3	2.2	0.0	0.0	0.0	0.0
65°	3485.9	2947.2	81.9	15.1	8.6	4.3	2.2	0.0	0.0	0.0	0.0
67.5°	3492.3	2876.2	62.5	12.9	6.5	2.2	2.2	0.0	0.0	0.0	0.0
70°	3302.7	2628.4	45.2	8.6	4.3	2.2	0.0	0.0	0.0	0.0	0.0
72.5°	2759.8	2007.9	30.2	6.5	4.3	2.2	0.0	0.0	0.0	0.0	0.0
75°	1723.5	868.2	17.2	6.5	2.2	2.2	0.0	0.0	0.0	0.0	0.0
77.5°	713.1	262.8	10.8	4.3	2.2	2.2	0.0	0.0	0.0	0.0	0.0
80°	163.7	62.5	4.3	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	38.8	10.8	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0
85°	8.6	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	2.2	2.2	2.2	2.2	2.2	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)