

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: P595113

Luminaire Tested: **IST-PA1C-727-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1C-727-U-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4074 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

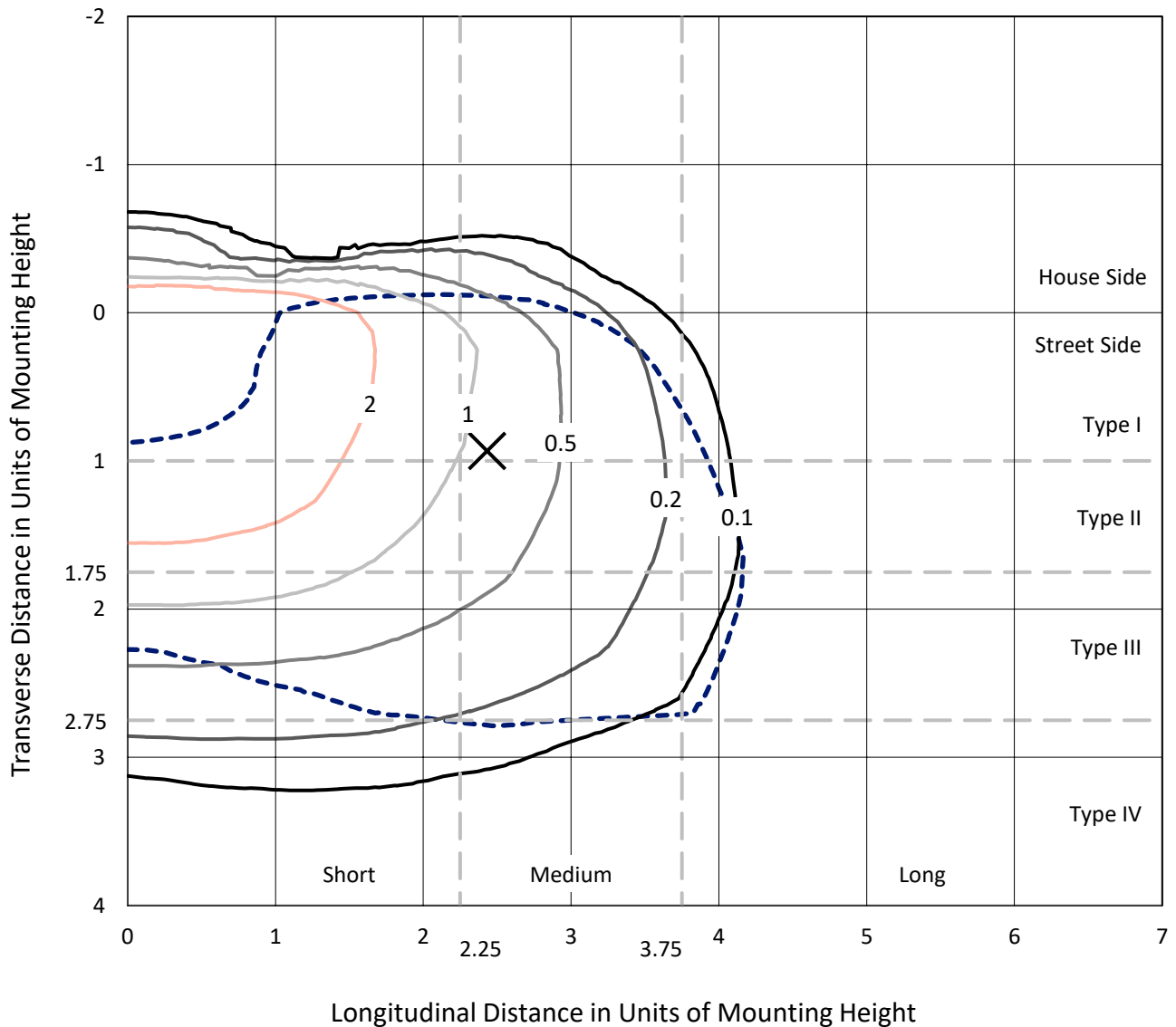
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P595113
 CATALOG NUMBER: IST-PA1C-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

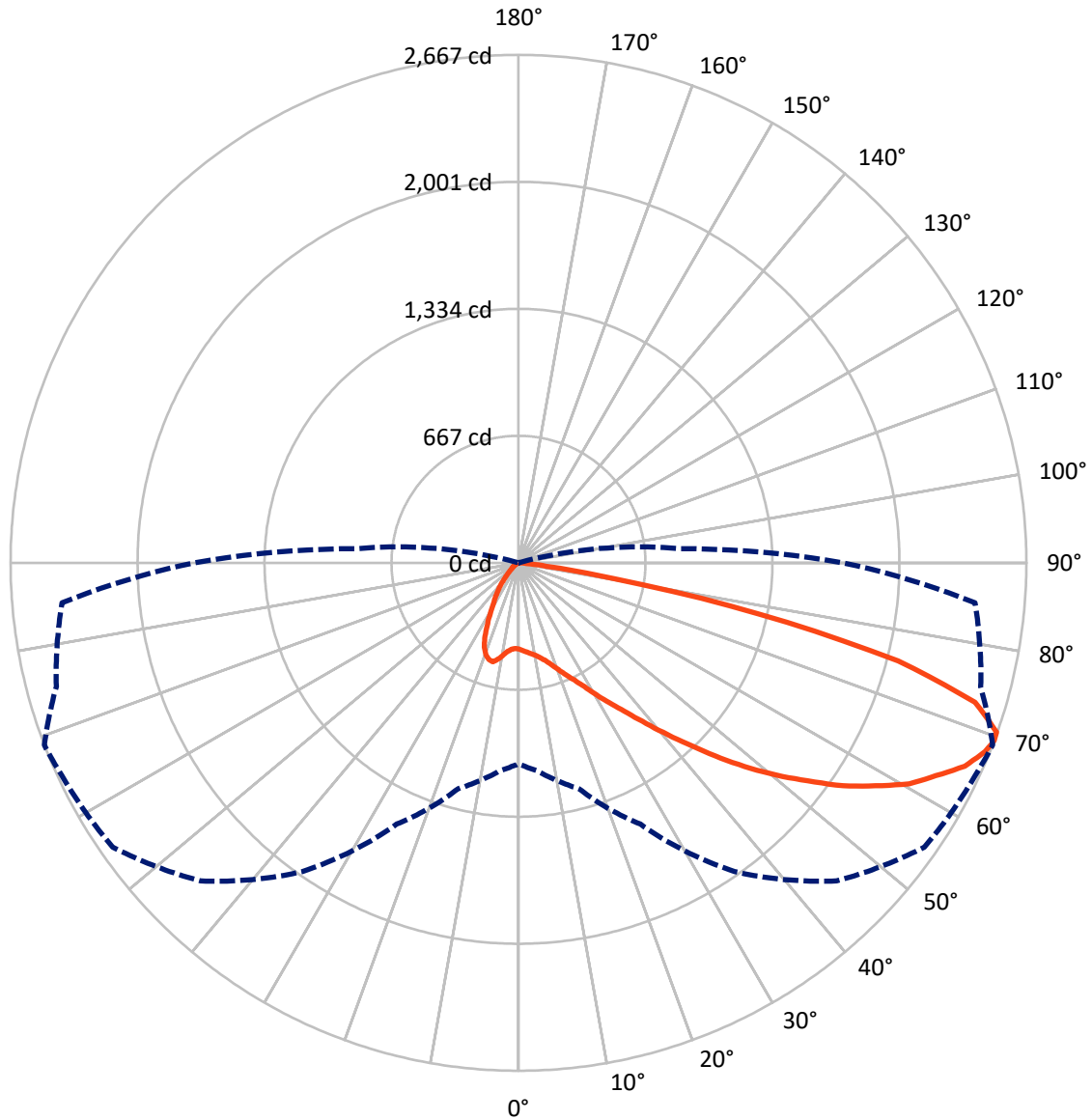
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P595113
CATALOG NUMBER: IST-PA1C-727-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P595113
 CATALOG NUMBER: IST-PA1C-727-U-T3-HSS

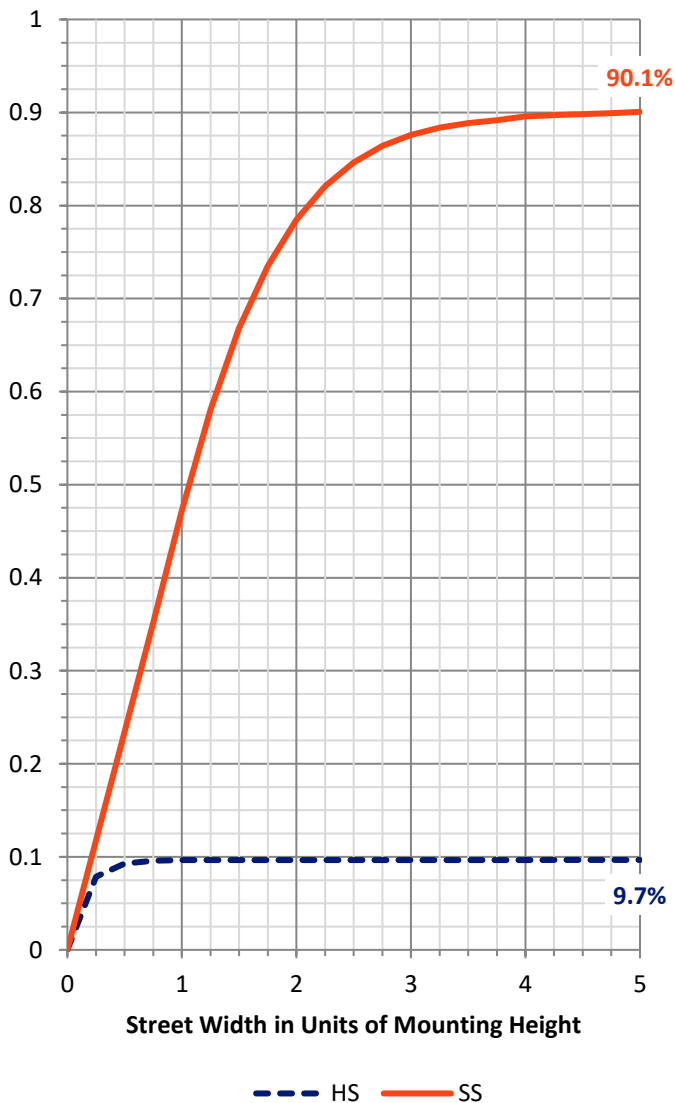
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	397.0	0.0	397.0
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	3677.0	0.0	3677.0
	% Fixture	90.3	0.0	90.3
Total	Lumens	4074.0	0.0	4074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	1.1
10°-20°	114.3	2.8
20°-30°	190.3	4.7
30°-40°	342.7	8.4
40°-50°	621.4	15.3
50°-60°	971.1	23.8
60°-70°	1123.5	27.6
70°-80°	628.3	15.4
80°-90°	39.2	1.0
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°	4074.0	100.0
0°-180°	4074.0	100.0

Coefficient of Utilization

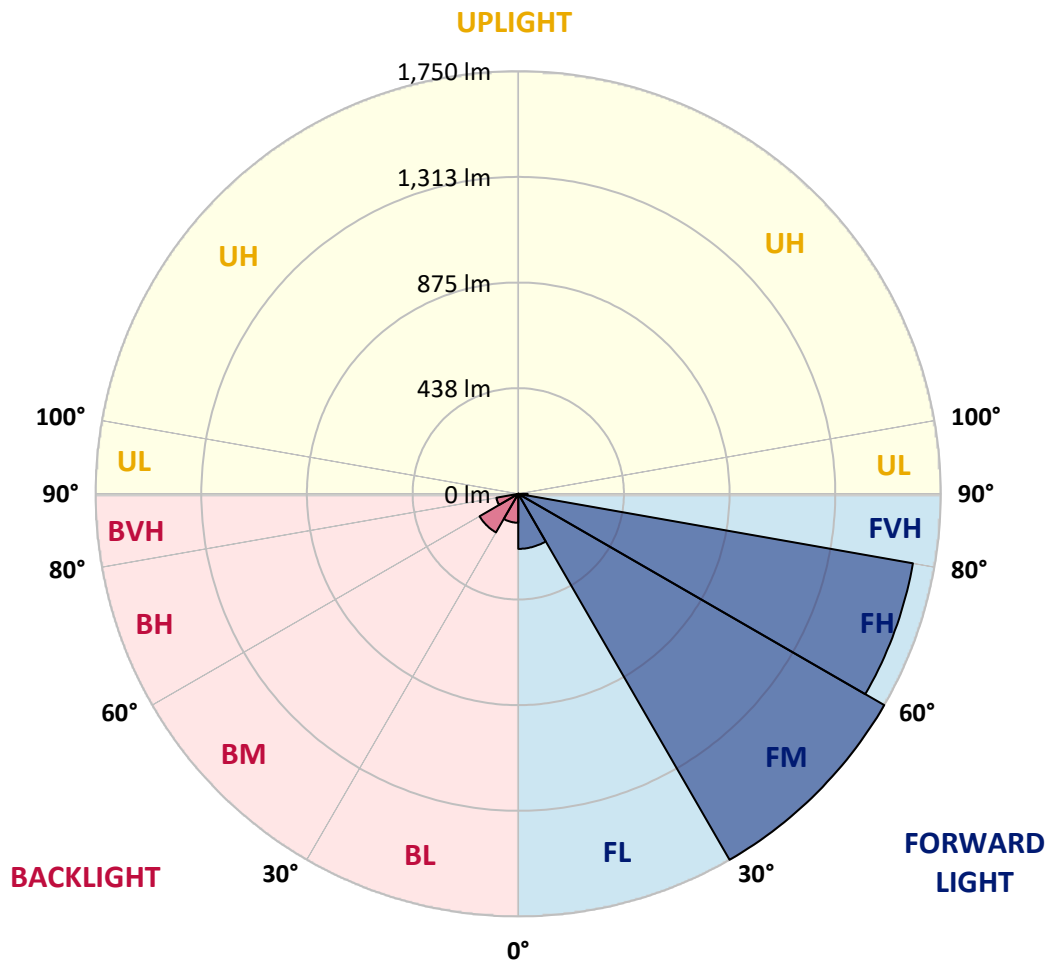


REPORT NUMBER: P595113
 CATALOG NUMBER: IST-PA1C-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	227.9	5.6			
FM (30°-60°)	1750.3	43.0			
FH (60°-80°)	1659.9	40.7			G1/1800
FVH (80°-90°)	38.9	1.0			G1/100
BL (0°-30°)	120.0	2.9	B1/500		
BM (30°-60°)	184.8	4.5	B0/220		
BH (60°-80°)	91.9	2.3	B0/110		G0/110
BVH (80°-90°)	0.3	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 III Medium





REPORT NUMBER: P595113
 CATALOG NUMBER: IST-PA1C-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	469.4	469.4	469.4	466.7	468.1	466.7	465.4	461.3	462.7	461.3	457.2
5°	453.2	454.5	458.6	461.3	468.1	470.8	472.2	472.2	470.8	468.1	465.4
7.5°	422.0	422.0	426.0	434.2	447.7	462.7	474.9	481.7	483.0	483.0	478.9
10°	413.8	413.8	419.2	424.7	438.2	455.9	474.9	491.2	493.9	496.6	495.2
12.5°	409.7	411.1	416.5	426.0	443.7	460.0	480.3	503.4	511.5	518.3	519.6
15°	415.2	415.2	420.6	430.1	450.5	473.5	499.3	525.1	533.2	542.7	549.5
17.5°	423.3	426.0	428.7	438.2	457.2	485.7	519.6	553.6	563.1	575.3	580.7
20°	436.9	436.9	439.6	447.7	468.1	502.0	549.5	590.2	598.3	606.5	613.3
22.5°	453.2	454.5	454.5	461.3	484.4	521.0	575.3	625.5	639.0	643.1	645.8
25°	502.0	499.3	489.8	485.7	503.4	542.7	606.5	667.5	682.5	686.5	681.1
27.5°	603.8	592.9	567.1	540.0	537.3	576.6	648.5	720.5	736.7	738.1	719.1
30°	731.3	732.7	690.6	632.3	592.9	613.3	694.7	786.9	803.2	796.4	766.6
32.5°	888.7	881.9	850.7	766.6	687.9	670.3	744.9	856.1	875.1	864.3	824.9
35°	1023.0	1027.1	989.1	914.5	815.4	758.4	805.9	933.5	956.5	937.5	888.7
37.5°	1135.6	1141.1	1118.0	1056.9	968.7	879.2	886.0	1024.4	1055.6	1036.6	975.5
40°	1260.5	1264.5	1255.0	1188.5	1109.9	1023.0	993.2	1128.8	1170.9	1145.1	1081.4
42.5°	1397.5	1412.4	1396.1	1343.2	1261.8	1187.2	1142.4	1256.4	1298.4	1282.2	1196.7
45°	1584.7	1586.1	1567.1	1514.2	1430.1	1369.0	1314.7	1392.1	1446.3	1426.0	1325.6
47.5°	1723.1	1732.6	1721.8	1685.1	1617.3	1576.6	1502.0	1541.3	1598.3	1572.5	1458.5
50°	1828.9	1854.7	1845.2	1856.1	1822.2	1804.5	1690.6	1696.0	1751.6	1729.9	1594.2
52.5°	1887.3	1919.9	1922.6	1978.2	2006.7	2050.1	1873.7	1865.6	1900.9	1881.9	1732.6
55°	1879.2	1887.3	1955.1	2056.9	2168.1	2267.2	2052.8	2018.9	2067.7	2014.8	1879.2
57.5°	1800.5	1820.8	1940.2	2066.4	2263.1	2406.9	2207.5	2169.5	2210.2	2139.7	2029.8
60°	1687.8	1717.7	1871.0	2051.5	2318.7	2491.1	2358.1	2320.1	2356.7	2271.3	2200.7
62.5°	1586.1	1599.7	1740.8	1989.1	2286.2	2487.0	2474.8	2439.5	2461.2	2371.7	2347.2
65°	1440.9	1446.3	1586.1	1876.4	2214.3	2459.9	2538.5	2552.1	2575.2	2455.8	2451.7
67.5°	1217.0	1229.2	1367.6	1679.7	2094.9	2406.9	2588.7	2615.9	2643.0	2500.6	2470.7
69°	1055.6	1094.9	1227.9	1514.2	1979.6	2362.2	2602.3	2645.7	2667.4	2512.8	2406.9
70°	924.0	957.9	1111.2	1386.6	1877.8	2312.0	2611.8	2641.7	2663.4	2487.0	2302.5
72.5°	464.0	507.4	717.7	1012.2	1492.5	2082.7	2563.0	2530.4	2507.3	2287.5	1862.9
75°	179.1	185.9	308.0	576.6	933.5	1529.1	2188.5	2127.4	2059.6	1735.3	1104.4
77.5°	99.0	97.7	134.3	255.1	397.5	747.6	1480.3	1382.6	1288.9	932.1	447.7
80°	42.1	44.8	58.3	122.1	208.9	259.1	719.1	639.0	508.8	295.8	107.2
82.5°	25.8	27.1	40.7	74.6	145.2	99.0	233.4	199.4	146.5	80.1	25.8
85°	8.1	9.5	28.5	50.2	70.6	40.7	52.9	46.1	40.7	33.9	8.1
87.5°	1.4	1.4	10.9	27.1	19.0	6.8	5.4	9.5	14.9	16.3	2.7
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: P595113
 CATALOG NUMBER: IST-PA1C-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	455.9	453.2	450.5	449.1	449.1	446.4	445.0	443.7	443.7	442.3	442.3
5°	461.3	458.6	455.9	454.5	451.8	450.5	450.5	450.5	449.1	450.5	451.8
7.5°	474.9	470.8	469.4	468.1	468.1	464.0	457.2	439.6	422.0	416.5	411.1
10°	493.9	492.5	492.5	492.5	483.0	447.7	398.9	355.5	332.4	313.4	313.4
12.5°	521.0	521.0	519.6	515.6	466.7	381.3	305.3	240.2	202.2	180.5	183.2
15°	550.9	549.5	552.2	526.4	411.1	294.4	184.5	130.3	109.9	107.2	107.2
17.5°	582.1	584.8	582.1	497.9	337.8	181.8	109.9	99.0	96.3	96.3	96.3
20°	614.6	611.9	607.8	449.1	245.6	114.0	95.0	92.3	89.5	88.2	88.2
22.5°	647.2	644.5	617.3	386.7	153.3	93.6	89.5	84.1	80.1	78.7	78.7
25°	678.4	678.4	599.7	306.6	104.5	88.2	81.4	76.0	71.9	67.8	67.8
27.5°	717.7	720.5	571.2	214.4	88.2	81.4	73.3	65.1	59.7	57.0	57.0
30°	762.5	766.6	525.1	139.7	80.1	71.9	63.8	54.3	46.1	43.4	42.1
32.5°	815.4	819.5	472.2	92.3	71.9	62.4	52.9	40.7	32.6	31.2	29.8
35°	883.3	873.8	408.4	73.3	62.4	52.9	40.7	28.5	23.1	21.7	21.7
37.5°	967.4	947.0	335.1	63.8	52.9	42.1	29.8	19.0	14.9	14.9	13.6
40°	1063.7	1006.7	259.1	57.0	44.8	32.6	19.0	12.2	9.5	9.5	9.5
42.5°	1169.6	1056.9	184.5	50.2	36.6	23.1	12.2	6.8	5.4	5.4	5.4
45°	1291.7	1103.1	126.2	43.4	31.2	16.3	6.8	2.7	2.7	2.7	2.7
47.5°	1413.8	1132.9	84.1	38.0	23.1	9.5	4.1	1.4	1.4	1.4	1.4
50°	1537.2	1156.0	65.1	32.6	16.3	5.4	1.4	0.0	0.0	0.0	0.0
52.5°	1647.1	1172.3	52.9	27.1	10.9	4.1	1.4	0.0	0.0	0.0	0.0
55°	1742.1	1173.6	46.1	21.7	8.1	2.7	0.0	0.0	0.0	0.0	0.0
57.5°	1838.4	1162.8	39.3	16.3	5.4	1.4	0.0	0.0	0.0	0.0	0.0
60°	1896.8	1134.3	31.2	12.2	4.1	1.4	0.0	0.0	0.0	0.0	0.0
62.5°	1932.1	1086.8	24.4	8.1	2.7	1.4	0.0	0.0	0.0	0.0	0.0
65°	1911.7	1027.1	17.6	5.4	2.7	1.4	0.0	0.0	0.0	0.0	0.0
67.5°	1816.7	934.8	12.2	4.1	1.4	1.4	0.0	0.0	0.0	0.0	0.0
69°	1704.1	850.7	10.9	2.7	1.4	1.4	0.0	0.0	0.0	0.0	0.0
70°	1605.1	785.6	9.5	2.7	1.4	1.4	0.0	0.0	0.0	0.0	0.0
72.5°	1195.3	506.1	8.1	2.7	1.4	1.4	0.0	0.0	0.0	0.0	0.0
75°	671.6	169.6	5.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	252.4	43.4	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	55.6	10.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	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)