

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: P595394

Luminaire Tested: **IST-PA1F-750-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1F-750-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8085 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

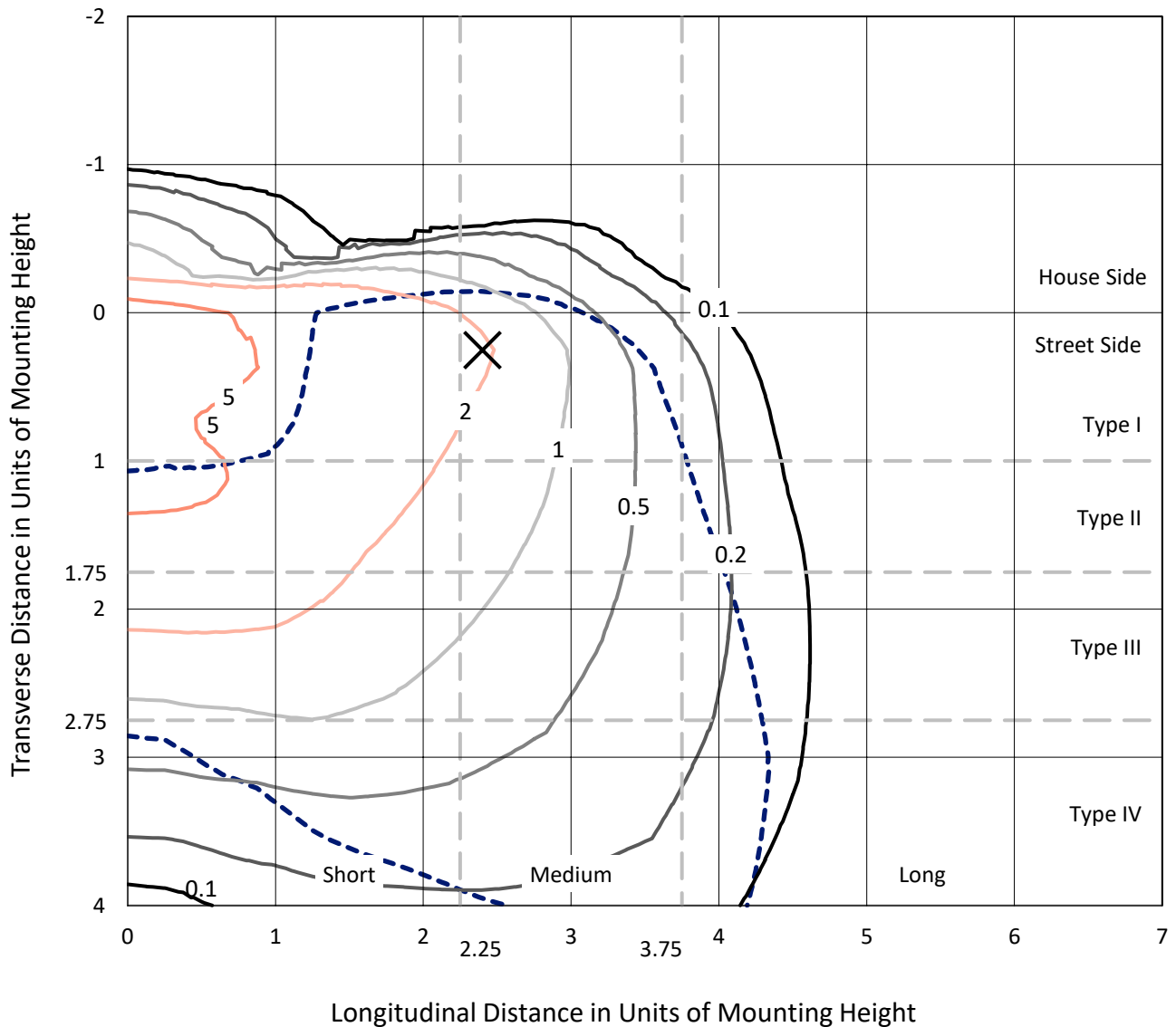
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P595394
 CATALOG NUMBER: IST-PA1F-750-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

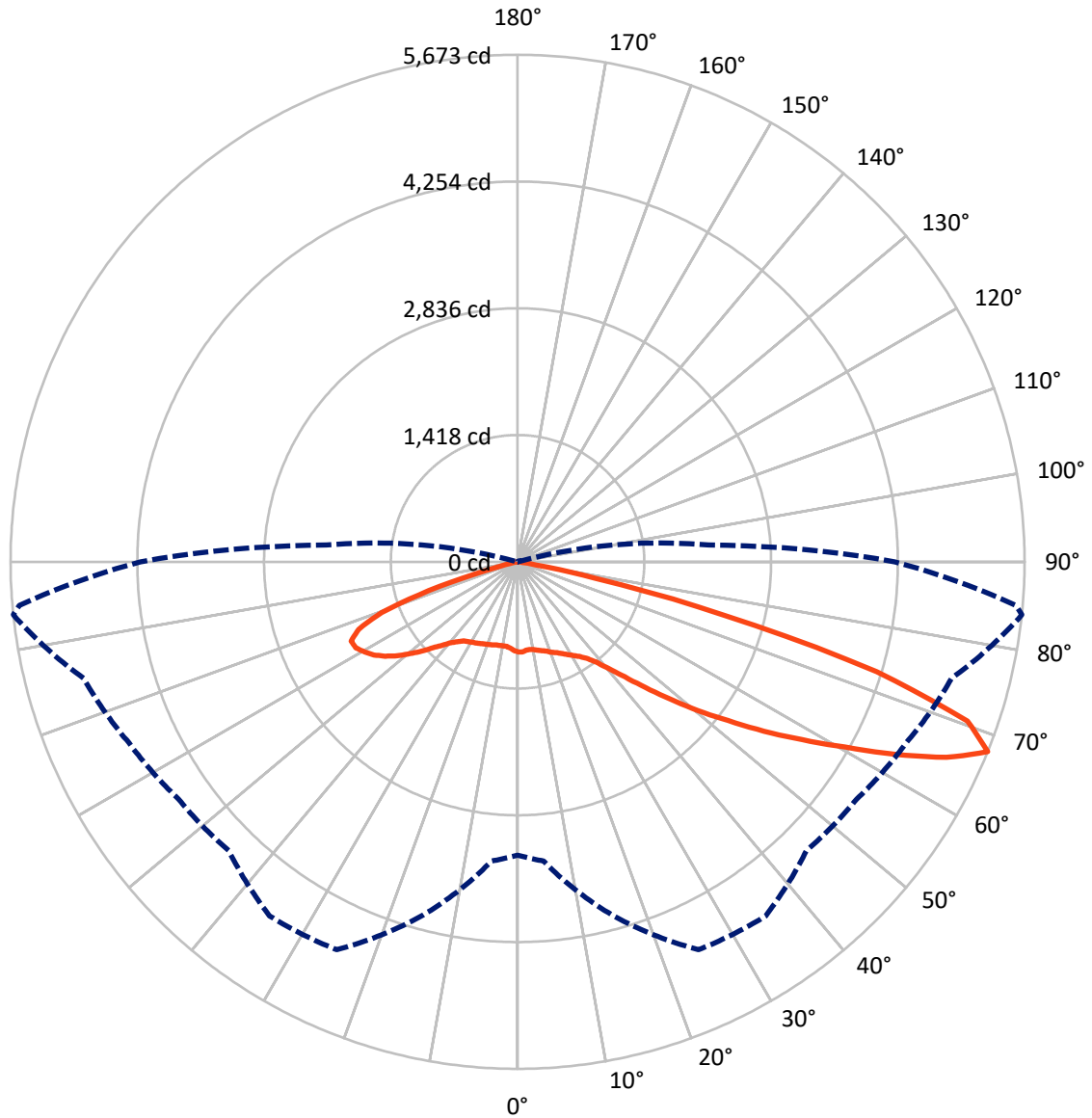
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P595394
CATALOG NUMBER: IST-PA1F-750-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P595394
 CATALOG NUMBER: IST-PA1F-750-U-T4W-HSS

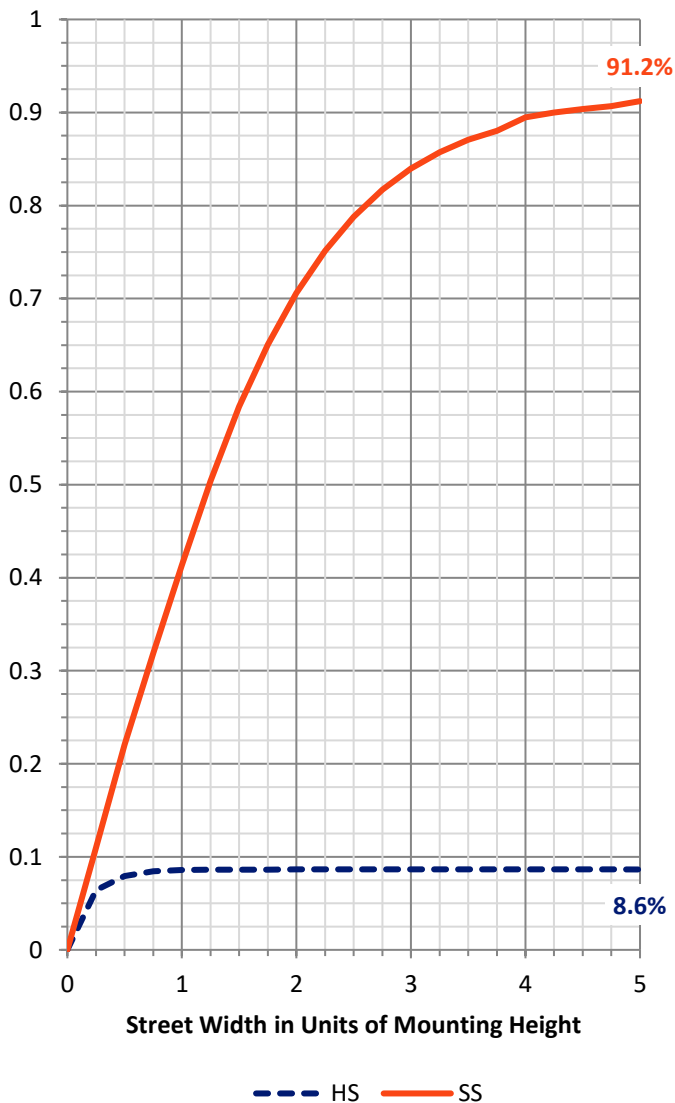
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	703.9	0.0	703.9
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	7381.1	0.0	7381.1
	% Fixture	91.3	0.0	91.3
Total	Lumens	8085.0	0.0	8085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	1.1
10°-20°	236.2	2.9
20°-30°	378.4	4.7
30°-40°	544.5	6.7
40°-50°	934.6	11.6
50°-60°	1632.8	20.2
60°-70°	2338.3	28.9
70°-80°	1757.5	21.7
80°-90°	172.5	2.1
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°	8085.0	100.0
0°-180°	8085.0	100.0

Coefficient of Utilization



REPORT NUMBER: P595394

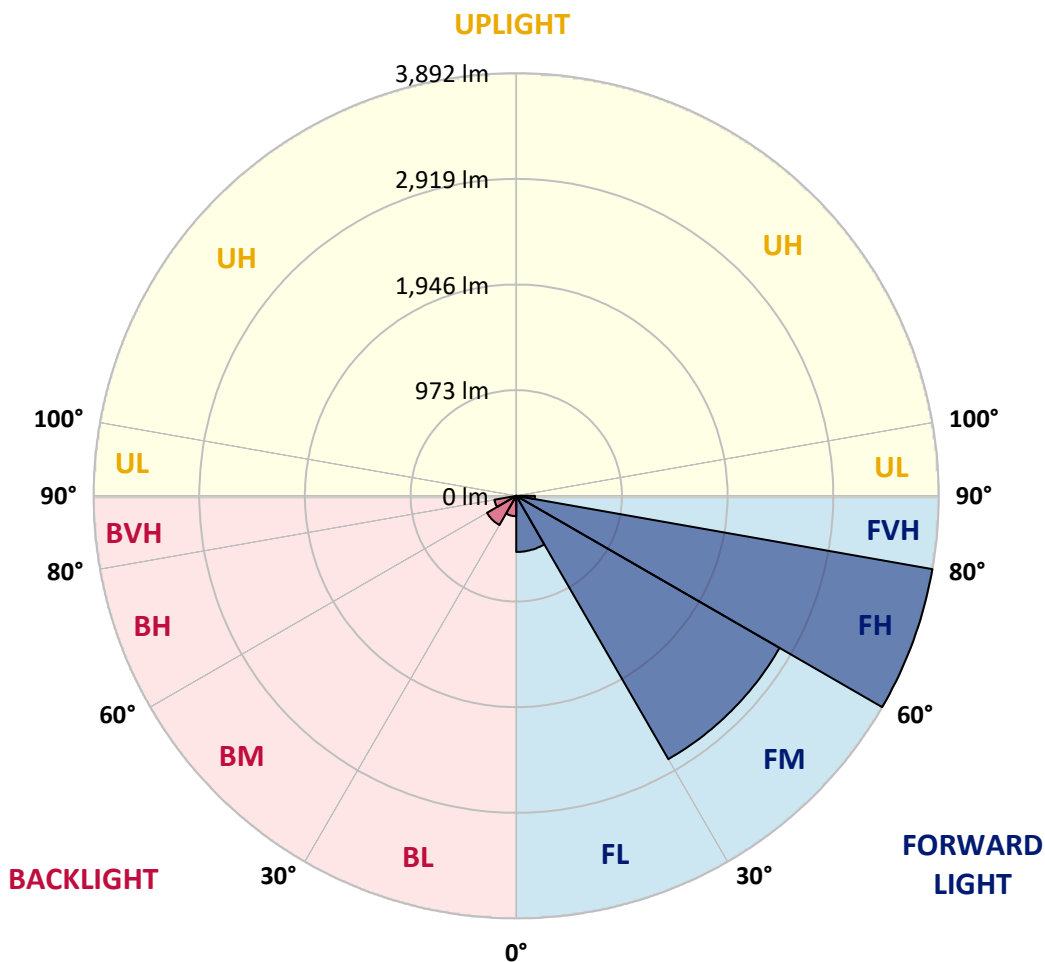
CATALOG NUMBER: IST-PA1F-750-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	516.9	6.4			
FM	(30°-60°)	2800.6	34.6			
FH	(60°-80°)	3891.7	48.1			G2/5000
FVH	(80°-90°)	172.0	2.1			G2/225
BL	(0°-30°)	188.0	2.3	B1/500		
BM	(30°-60°)	311.3	3.9	B1/1000		
BH	(60°-80°)	204.1	2.5	B1/500		G1/500
BVH	(80°-90°)	0.5	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-G2

Type IV Medium





REPORT NUMBER: P595394
 CATALOG NUMBER: IST-PA1F-750-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3
2.5°	1064.6	1070.1	1072.8	1059.2	1059.2	1048.2	1031.9	1026.4	1018.2	1010.0	1007.3
5°	1119.2	1127.4	1124.7	1108.3	1100.1	1078.3	1056.4	1034.6	1012.8	993.6	993.6
7.5°	1182.0	1184.7	1176.5	1149.2	1132.9	1102.8	1070.1	1045.5	1018.2	990.9	985.5
10°	1236.6	1233.9	1222.9	1195.6	1165.6	1127.4	1091.9	1064.6	1031.9	999.1	996.4
12.5°	1274.8	1277.5	1263.9	1225.7	1195.6	1152.0	1116.5	1089.2	1051.0	1015.5	1007.3
15°	1307.6	1315.8	1299.4	1261.2	1217.5	1179.3	1152.0	1116.5	1072.8	1031.9	1026.4
17.5°	1337.6	1340.3	1326.7	1283.0	1242.1	1209.3	1179.3	1146.5	1102.8	1051.0	1045.5
20°	1354.0	1362.2	1354.0	1299.4	1261.2	1236.6	1212.0	1179.3	1130.1	1081.0	1075.5
22.5°	1364.9	1373.1	1370.4	1310.3	1277.5	1258.4	1236.6	1206.6	1160.2	1102.8	1097.4
25°	1370.4	1375.8	1381.3	1321.2	1293.9	1285.7	1266.6	1239.3	1195.6	1135.6	1130.1
27.5°	1378.5	1384.0	1389.5	1334.9	1323.9	1315.8	1310.3	1288.5	1236.6	1173.8	1165.6
30°	1392.2	1400.4	1405.8	1359.4	1359.4	1367.6	1367.6	1337.6	1280.3	1214.8	1209.3
32.5°	1408.6	1411.3	1422.2	1384.0	1397.7	1416.8	1411.3	1381.3	1321.2	1261.2	1253.0
35°	1452.2	1452.2	1471.4	1422.2	1438.6	1455.0	1460.4	1438.6	1384.0	1323.9	1321.2
37.5°	1558.7	1558.7	1575.1	1495.9	1493.2	1509.6	1528.7	1528.7	1474.1	1419.5	1414.0
40°	1798.9	1798.9	1798.9	1616.0	1586.0	1605.1	1635.1	1651.5	1605.1	1566.9	1566.9
42.5°	2200.2	2202.9	2162.0	1837.2	1708.9	1741.6	1774.4	1809.9	1785.3	1758.0	1752.5
45°	2615.1	2601.5	2596.0	2162.0	1927.2	1910.9	1951.8	2011.9	2020.0	2003.7	2014.6
47.5°	2899.0	2912.7	2920.9	2566.0	2233.0	2121.0	2159.3	2243.9	2293.0	2290.3	2306.7
50°	3174.7	3182.9	3191.1	3011.0	2637.0	2385.8	2410.4	2525.1	2593.3	2615.1	2626.1
52.5°	3415.0	3393.1	3428.6	3404.1	3065.6	2688.8	2688.8	2819.9	2942.7	2950.9	2948.2
55°	3485.9	3499.6	3606.1	3679.8	3505.1	3060.1	3005.5	3144.7	3275.8	3344.0	3344.0
57.5°	3644.3	3657.9	3786.2	3952.7	3824.4	3425.9	3344.0	3480.5	3622.4	3753.5	3772.6
60°	3851.7	3854.5	3991.0	4244.8	4067.4	3756.2	3688.0	3843.5	3985.5	4209.3	4272.1
62.5°	3963.7	3974.6	4162.9	4496.0	4373.1	4045.6	4029.2	4171.1	4354.0	4747.1	4804.4
65°	3791.7	3862.7	4272.1	4646.1	4621.5	4315.8	4373.1	4487.8	4698.0	5274.0	5328.6
67.5°	3281.2	3360.4	4092.0	4788.1	4837.2	4569.7	4629.7	4796.2	5028.3	5672.5	5596.1
70°	3021.9	3087.4	3655.2	4867.2	5017.4	4853.6	4880.9	5036.5	5104.7	5339.5	5257.6
72.5°	2290.3	2358.5	3092.9	4597.0	5173.0	5151.1	5082.9	4954.6	4550.6	4201.2	4001.9
75°	1012.8	1091.9	2058.3	3592.4	4788.1	5320.4	4960.0	4242.1	3267.6	2385.8	2211.1
77.5°	447.7	494.1	797.1	1995.5	3597.9	4605.2	3922.7	2828.1	1640.6	887.2	824.4
80°	144.7	150.1	251.1	698.8	1839.9	3049.2	2402.2	1359.4	505.0	207.5	193.8
82.5°	57.3	62.8	120.1	294.8	761.6	1212.0	1179.3	491.4	147.4	54.6	54.6
85°	16.4	19.1	60.1	155.6	270.2	341.2	417.7	163.8	79.2	16.4	16.4
87.5°	5.5	5.5	21.8	49.1	51.9	35.5	79.2	62.8	49.1	5.5	5.5
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: P595394
 CATALOG NUMBER: IST-PA1F-750-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3
2.5°	1001.8	996.4	982.7	971.8	966.3	958.2	947.2	941.8	941.8	939.0	930.9
5°	982.7	974.5	950.0	933.6	919.9	889.9	868.1	840.8	813.5	805.3	813.5
7.5°	974.5	958.2	925.4	892.6	835.3	756.2	704.3	647.0	627.9	603.3	606.0
10°	977.3	958.2	911.8	838.0	726.1	608.7	526.9	450.4	412.2	393.1	395.8
12.5°	985.5	963.6	898.1	764.3	603.3	461.3	335.8	275.7	264.8	264.8	264.8
15°	1001.8	969.1	876.3	677.0	472.3	305.7	237.5	232.0	240.2	248.4	251.1
17.5°	1018.2	985.5	843.5	586.9	344.0	229.3	221.1	221.1	229.3	237.5	240.2
20°	1037.3	1001.8	797.1	491.4	245.7	215.7	212.9	210.2	215.7	223.8	226.6
22.5°	1067.3	1018.2	742.5	379.4	212.9	207.5	202.0	199.3	202.0	210.2	212.9
25°	1094.6	1040.1	685.2	281.2	199.3	193.8	191.1	188.4	188.4	193.8	196.5
27.5°	1127.4	1064.6	622.4	210.2	182.9	180.2	177.4	174.7	172.0	177.4	180.2
30°	1168.4	1086.5	554.1	177.4	166.5	163.8	161.1	158.3	155.6	158.3	161.1
32.5°	1220.2	1116.5	475.0	161.1	152.9	144.7	141.9	141.9	139.2	139.2	141.9
35°	1288.5	1149.2	390.4	150.1	139.2	131.0	122.8	120.1	120.1	120.1	122.8
37.5°	1389.5	1209.3	308.5	139.2	128.3	114.7	106.5	98.3	98.3	98.3	98.3
40°	1528.7	1274.8	240.2	131.0	120.1	101.0	90.1	79.2	73.7	71.0	73.7
42.5°	1744.3	1373.1	185.6	120.1	114.7	90.1	73.7	60.1	49.1	46.4	49.1
45°	1981.8	1479.5	147.4	111.9	103.7	76.4	57.3	40.9	30.0	27.3	30.0
47.5°	2282.1	1613.3	125.6	101.0	90.1	62.8	40.9	21.8	13.6	16.4	16.4
50°	2571.5	1744.3	114.7	92.8	79.2	51.9	24.6	10.9	5.5	8.2	8.2
52.5°	2890.9	1883.6	106.5	81.9	68.2	38.2	13.6	2.7	0.0	2.7	2.7
55°	3213.0	2009.1	98.3	73.7	54.6	27.3	5.5	0.0	0.0	0.0	2.7
57.5°	3562.4	2115.6	90.1	62.8	40.9	16.4	2.7	0.0	0.0	0.0	0.0
60°	3854.5	2197.5	81.9	54.6	27.3	8.2	0.0	0.0	0.0	0.0	0.0
62.5°	4122.0	2271.2	62.8	40.9	16.4	5.5	0.0	0.0	0.0	0.0	0.0
65°	4299.4	2287.6	43.7	27.3	10.9	2.7	0.0	0.0	0.0	0.0	0.0
67.5°	4220.3	2145.6	27.3	19.1	5.5	2.7	0.0	0.0	0.0	0.0	0.0
70°	3709.8	1801.7	19.1	10.9	2.7	2.7	0.0	0.0	0.0	0.0	0.0
72.5°	2596.0	1162.9	16.4	8.2	2.7	2.7	0.0	0.0	0.0	0.0	0.0
75°	1370.4	420.4	10.9	5.5	2.7	2.7	0.0	0.0	0.0	0.0	0.0
77.5°	485.9	92.8	5.5	2.7	0.0	2.7	0.0	0.0	0.0	0.0	0.0
80°	106.5	19.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	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)