

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: P595202

Luminaire Tested: **IST-PA1D-730-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1D-730-U-T2U
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7580 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

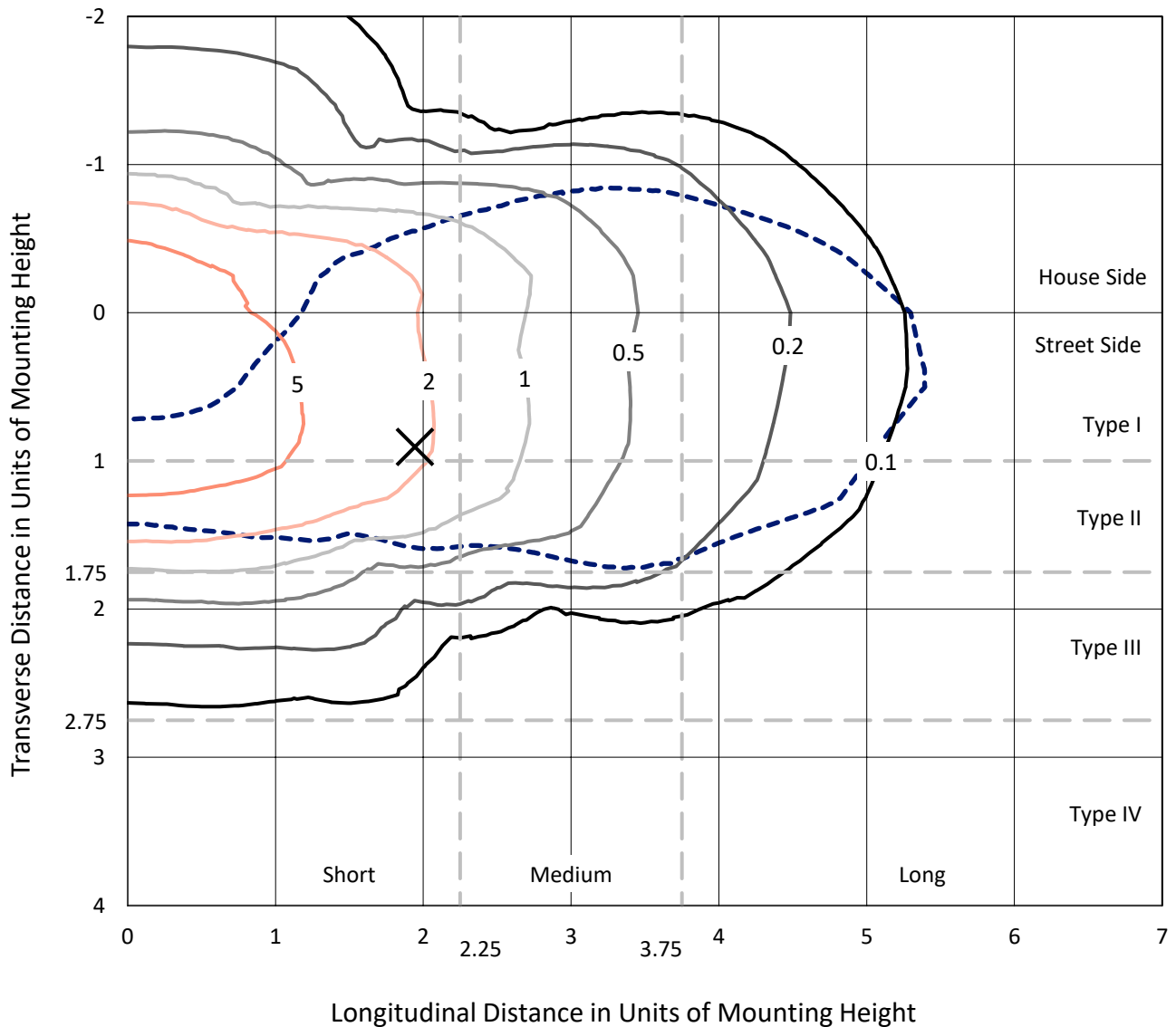
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

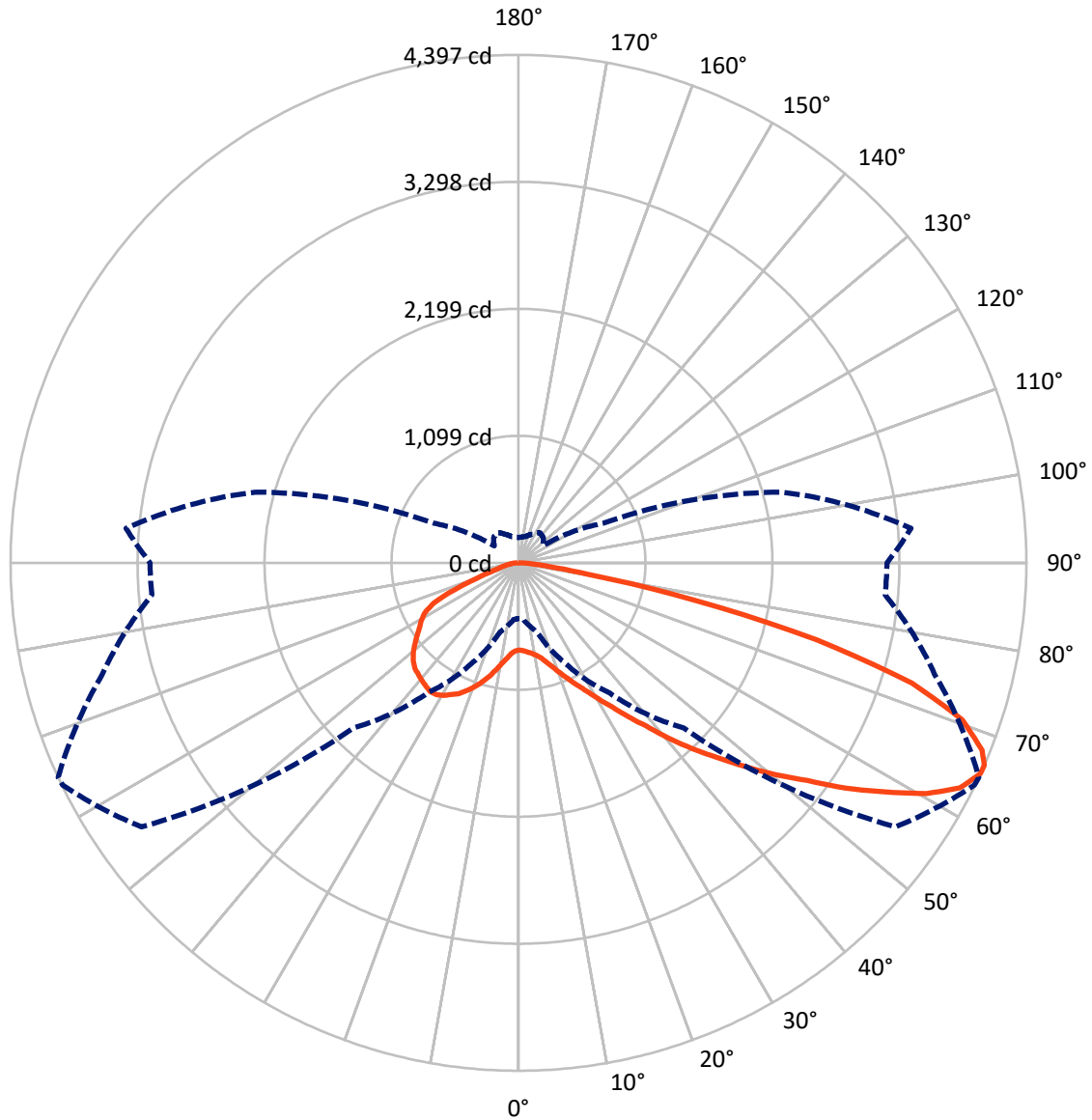
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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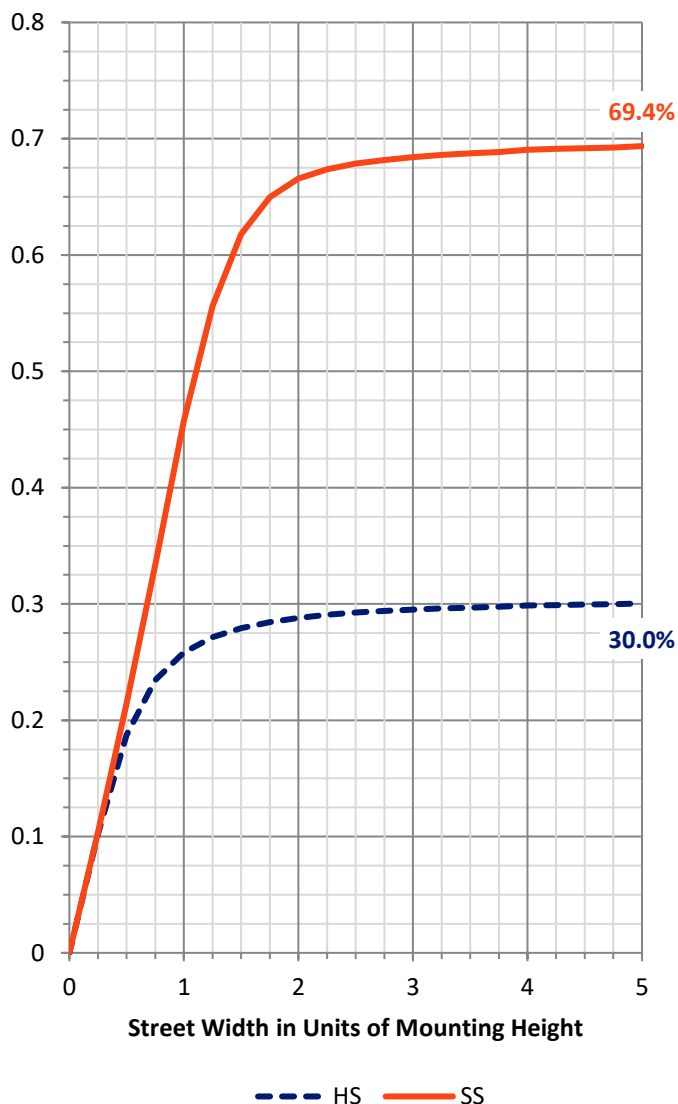
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2301.6	0.0	2301.6
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	5278.4	0.0	5278.4
	% Fixture	69.6	0.0	69.6
Total	Lumens	7580.0	0.0	7580.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	1.0
10°-20°	268.7	3.5
20°-30°	526.1	6.9
30°-40°	859.7	11.3
40°-50°	1364.6	18.0
50°-60°	1755.0	23.2
60°-70°	1582.7	20.9
70°-80°	981.6	13.0
80°-90°	164.5	2.2
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°	7580.0	100.0
0°-180°	7580.0	100.0

Coefficient of Utilization

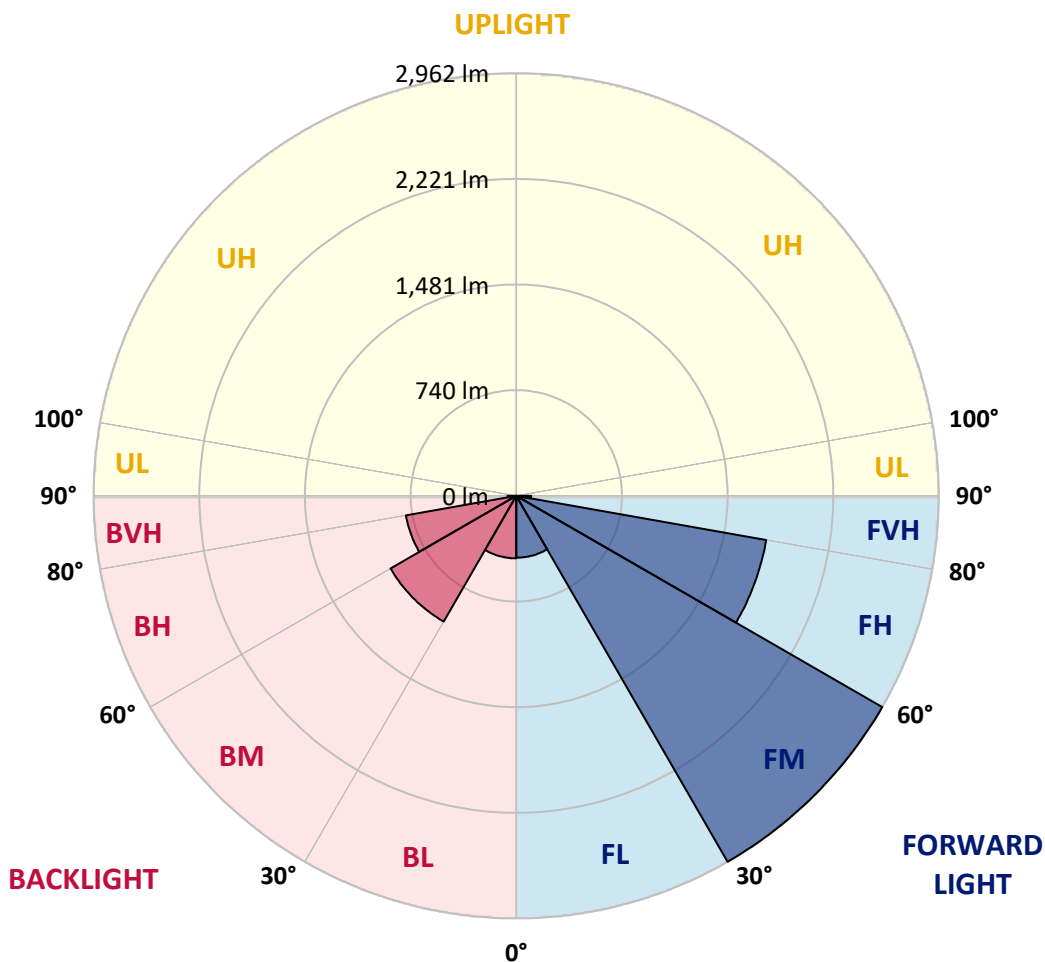


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	433.5	5.7			
FM (30°-60°)	2961.8	39.1			
FH (60°-80°)	1779.0	23.5			G1/1800
FVH (80°-90°)	104.1	1.4			G2/225
BL (0°-30°)	438.4	5.8	B1/500		
BM (30°-60°)	1017.5	13.4	B2/2500		
BH (60°-80°)	785.3	10.4	B2/1000		G2/1000
BVH (80°-90°)	60.4	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5
2.5°	757.4	759.2	761.1	757.4	761.1	762.9	759.2	759.2	761.1	757.4	757.4
5°	751.9	753.7	757.4	759.2	766.6	770.3	772.1	772.1	773.9	772.1	773.9
7.5°	737.2	737.2	744.5	748.2	759.2	772.1	779.4	790.5	790.5	792.3	797.8
10°	751.9	751.9	757.4	762.9	772.1	783.1	794.2	807.0	810.7	823.6	830.9
12.5°	773.9	777.6	785.0	792.3	803.3	816.2	825.4	838.3	840.1	853.0	867.7
15°	810.7	814.4	818.0	827.2	841.9	858.5	875.0	884.2	887.9	895.3	906.3
17.5°	865.8	869.5	871.4	876.9	887.9	910.0	933.9	941.2	944.9	944.9	954.1
20°	959.6	957.8	954.1	943.1	943.1	963.3	996.4	1009.2	1012.9	1005.6	1000.0
22.5°	1068.1	1066.2	1051.5	1038.6	1029.5	1033.1	1066.2	1088.3	1086.4	1071.7	1049.7
25°	1209.6	1213.3	1189.4	1156.3	1128.7	1121.4	1141.6	1163.7	1167.3	1139.8	1103.0
27.5°	1378.7	1373.2	1360.3	1307.0	1253.7	1220.6	1231.7	1255.6	1257.4	1228.0	1169.2
30°	1577.3	1568.1	1535.0	1479.8	1397.1	1351.2	1342.0	1362.2	1367.7	1318.1	1233.5
32.5°	1797.9	1788.7	1746.4	1661.8	1571.8	1494.5	1465.1	1492.7	1489.0	1432.0	1314.4
35°	2064.4	2062.6	1985.4	1880.6	1766.6	1663.7	1623.2	1623.2	1634.3	1549.7	1417.3
37.5°	2421.1	2435.8	2321.8	2158.2	1998.2	1860.4	1792.4	1788.7	1790.5	1698.6	1533.2
40°	2742.8	2737.2	2671.1	2518.5	2285.0	2108.5	2007.4	1985.4	1990.9	1873.2	1683.9
42.5°	2928.4	2933.9	2917.4	2851.2	2647.2	2424.7	2251.9	2193.1	2194.9	2047.9	1827.3
45°	3044.2	3049.8	3047.9	3081.0	3000.1	2790.6	2544.2	2408.2	2400.8	2246.4	1996.4
47.5°	3110.4	3114.1	3138.0	3206.0	3272.2	3224.4	2867.8	2647.2	2632.5	2432.1	2165.5
50°	3036.9	3038.7	3134.3	3296.1	3457.9	3603.1	3198.7	2884.3	2880.6	2638.0	2331.0
52.5°	2650.8	2683.9	2895.3	3233.6	3595.7	3871.5	3581.0	3163.7	3132.5	2832.8	2496.4
55°	2163.7	2178.4	2421.1	2851.2	3570.0	4036.9	3869.6	3465.2	3443.2	3049.8	2658.2
57.5°	1689.4	1704.1	1992.7	2351.2	3176.6	4027.7	4073.7	3790.6	3741.0	3239.1	2820.0
60°	1090.1	1136.1	1470.6	1911.8	2571.8	3748.3	4176.6	4103.1	4057.2	3426.6	2957.8
62.5°	740.8	748.2	957.8	1417.3	1924.7	3046.1	4169.3	4296.1	4288.8	3614.1	3095.7
65°	481.6	492.7	619.5	959.6	1376.9	2022.1	3985.5	4389.9	4397.2	3729.9	3185.8
66°	408.1	415.5	512.9	807.0	1205.9	1603.0	3823.7	4382.5	4397.2	3783.2	3213.4
67.5°	354.8	360.3	409.9	595.6	985.3	1152.6	3402.7	4285.1	4327.4	3832.9	3248.3
70°	305.2	312.5	358.5	406.3	704.1	672.8	2154.5	4035.1	4077.4	3856.8	3270.4
72.5°	251.8	257.4	303.3	367.7	511.1	452.2	950.4	3454.2	3560.8	3768.5	3235.4
75°	198.5	202.2	244.5	307.0	391.6	353.0	413.6	2533.2	2667.4	3321.8	3099.4
77.5°	154.4	156.3	189.3	239.0	358.5	273.9	255.5	1233.5	1560.7	2566.3	2729.9
80°	106.6	110.3	139.7	180.2	262.9	216.9	171.0	481.6	612.2	1704.1	2069.9
82.5°	69.9	71.7	95.6	136.0	174.6	207.7	112.1	233.5	257.4	785.0	897.1
85°	47.8	47.8	68.0	84.6	119.5	137.9	73.5	123.2	134.2	297.8	108.5
87.5°	23.9	23.9	33.1	44.1	57.0	53.3	44.1	44.1	44.1	97.4	31.3
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5	755.5
2.5°	759.2	759.2	761.1	762.9	764.7	764.7	766.6	766.6	764.7	766.6	768.4
5°	775.8	777.6	781.3	786.8	796.0	805.2	814.4	819.9	825.4	827.2	823.6
7.5°	801.5	805.2	818.0	832.8	847.5	869.5	882.4	889.7	893.4	897.1	893.4
10°	834.6	841.9	860.3	886.1	911.8	939.4	954.1	965.1	967.0	970.6	967.0
12.5°	873.2	886.1	913.6	950.4	981.7	1009.2	1020.3	1012.9	996.4	989.0	987.2
15°	919.2	932.0	970.6	1016.6	1053.4	1066.2	1049.7	1025.8	1007.4	1005.6	1003.7
17.5°	959.6	978.0	1031.3	1079.1	1114.0	1101.1	1057.0	1042.3	1036.8	1044.2	1042.3
20°	1011.1	1025.8	1079.1	1137.9	1156.3	1106.7	1075.4	1066.2	1060.7	1060.7	1057.0
22.5°	1053.4	1064.4	1128.7	1193.1	1182.0	1110.3	1088.3	1069.9	1051.5	1049.7	1044.2
25°	1103.0	1106.7	1174.7	1244.5	1185.7	1114.0	1075.4	1044.2	1025.8	1020.3	1022.1
27.5°	1148.9	1158.1	1217.0	1279.5	1176.5	1093.8	1031.3	990.8	963.3	961.4	961.4
30°	1207.8	1207.8	1261.1	1318.1	1156.3	1042.3	959.6	900.8	878.7	876.9	873.2
32.5°	1273.9	1262.9	1314.4	1345.6	1112.2	972.5	862.2	796.0	761.1	753.7	748.2
35°	1365.9	1342.0	1378.7	1351.2	1068.1	873.2	739.0	663.6	637.9	626.9	626.9
37.5°	1472.5	1437.6	1476.2	1334.6	1000.0	757.4	610.3	553.3	525.8	509.2	514.7
40°	1597.5	1553.4	1575.4	1316.2	926.5	628.7	503.7	468.8	435.7	413.6	413.6
42.5°	1744.6	1671.0	1687.6	1297.8	821.7	516.6	435.7	411.8	386.0	364.0	369.5
45°	1886.1	1814.4	1797.9	1279.5	711.4	441.2	408.1	391.6	367.7	341.9	341.9
47.5°	2049.7	1957.8	1895.3	1246.4	603.0	417.3	415.5	391.6	345.6	308.8	305.2
50°	2204.1	2119.6	1983.5	1196.7	542.3	437.5	413.6	356.6	312.5	288.6	286.8
52.5°	2367.7	2279.5	2055.2	1136.1	511.1	428.3	380.5	327.2	294.1	270.2	264.7
55°	2529.5	2483.6	2119.6	1077.2	461.4	398.9	353.0	308.8	273.9	251.8	248.2
57.5°	2713.3	2695.0	2174.7	1018.4	384.2	362.1	332.7	296.0	262.9	246.3	244.5
60°	2873.3	2937.6	2240.9	974.3	327.2	334.6	323.5	294.1	270.2	251.8	251.8
62.5°	3042.4	3171.1	2299.7	917.3	284.9	318.0	325.4	292.3	261.0	244.5	244.5
65°	3189.5	3410.1	2360.4	812.5	255.5	305.2	319.9	272.1	235.3	222.4	218.8
66°	3252.0	3478.1	2378.8	748.2	244.5	296.0	310.7	261.0	224.3	213.2	211.4
67.5°	3325.5	3584.7	2400.8	610.3	228.0	275.7	290.5	244.5	205.9	198.5	194.9
70°	3428.4	3606.8	2388.0	398.9	198.5	237.1	259.2	218.8	183.8	178.3	172.8
72.5°	3439.5	3456.0	2259.3	251.8	172.8	204.1	228.0	196.7	161.8	156.3	152.6
75°	3257.5	3062.6	1911.8	180.2	152.6	180.2	200.4	171.0	134.2	126.8	123.2
77.5°	2781.4	2430.2	1375.1	134.2	132.4	154.4	167.3	148.9	112.1	106.6	104.8
80°	1952.3	1649.0	689.4	101.1	104.8	128.7	139.7	125.0	93.8	86.4	82.7
82.5°	790.5	700.4	237.1	75.4	79.0	97.4	119.5	102.9	71.7	62.5	55.1
85°	90.1	152.6	102.9	51.5	53.3	66.2	80.9	62.5	42.3	34.9	29.4
87.5°	18.4	33.1	36.8	20.2	18.4	25.7	36.8	22.1	14.7	5.5	7.4
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)