

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: P595330

Luminaire Tested: **IST-PA1E-827-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1E-827-U-T3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7456 lumens
Efficiency: N/A
Efficacy: 91.5 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

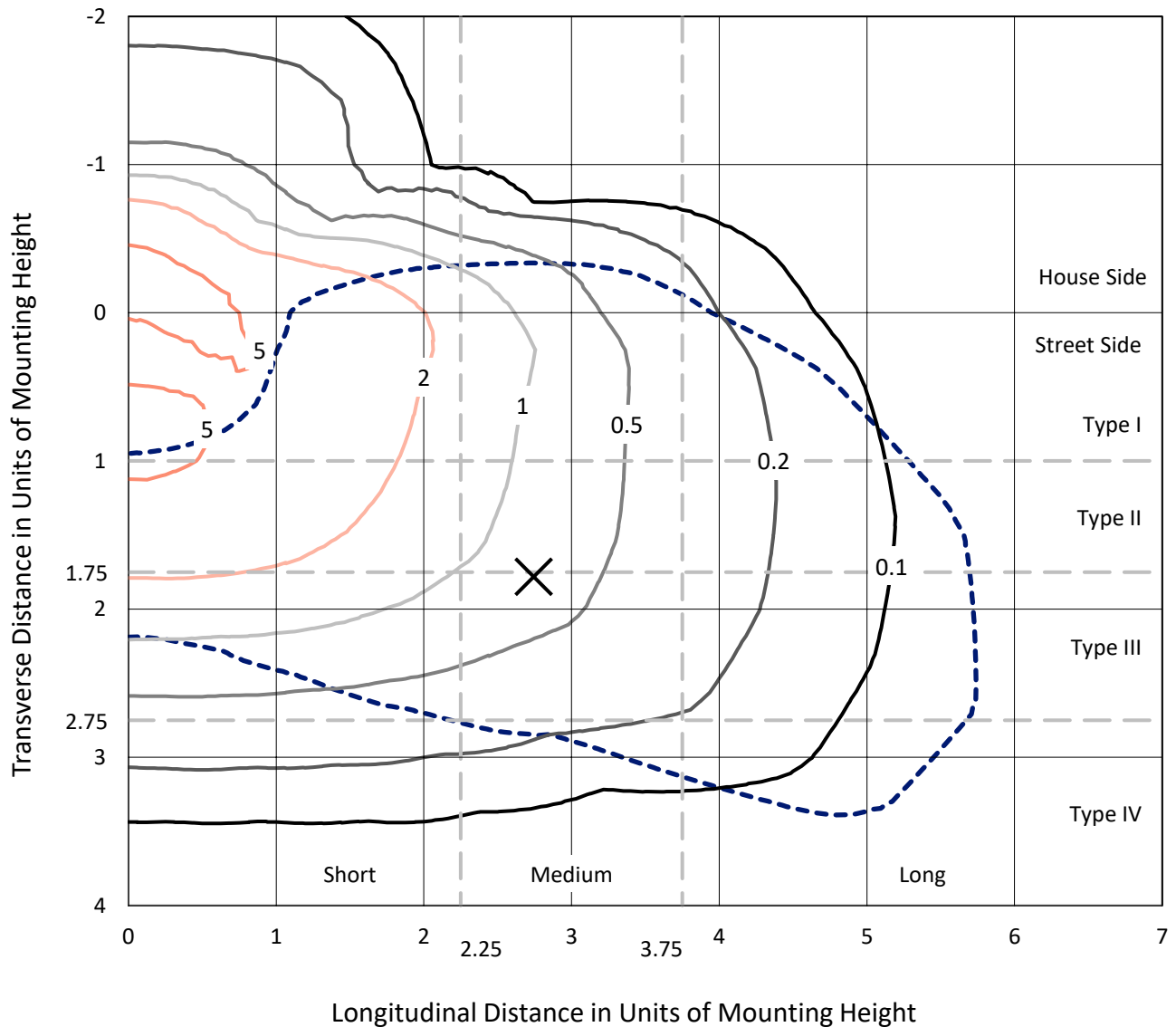
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

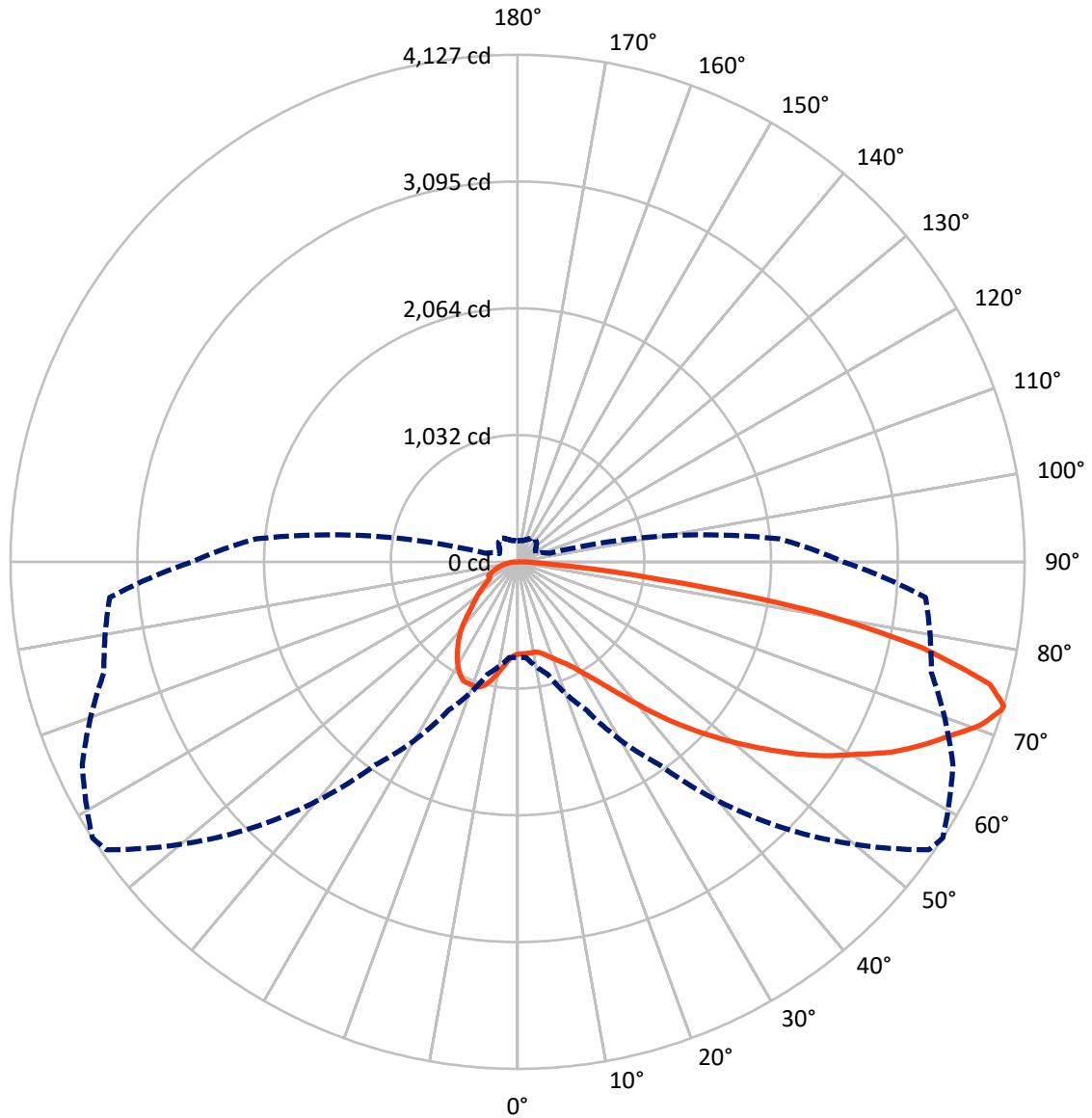
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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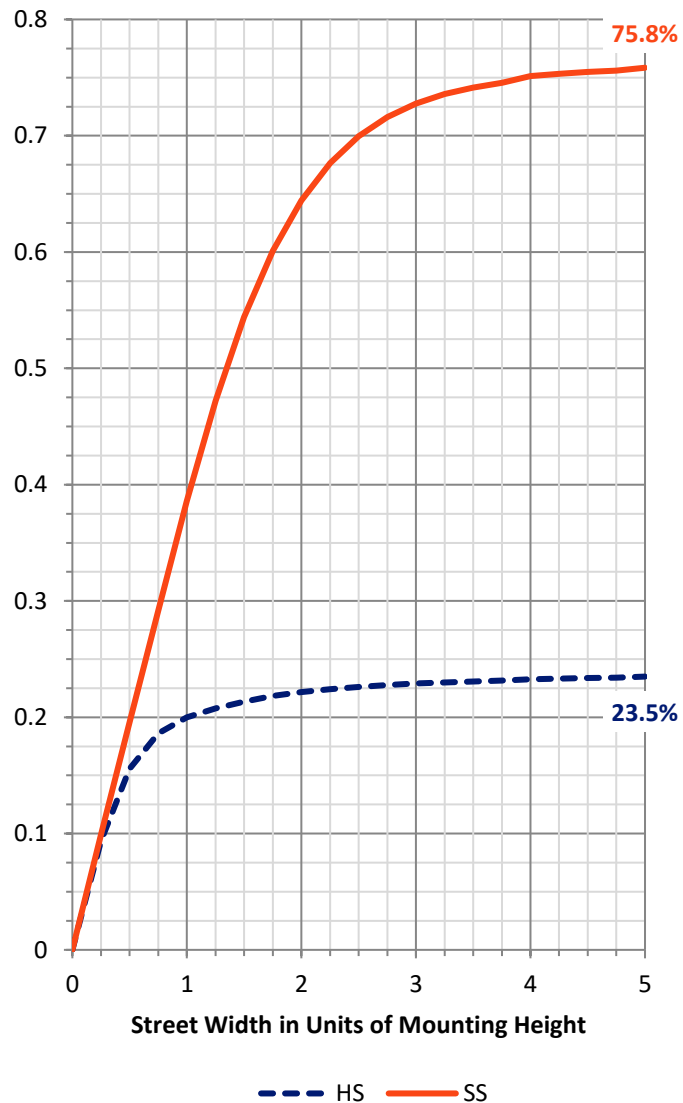
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1778.8	0.0	1778.8
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	5677.3	0.0	5677.3
	% Fixture	76.1	0.0	76.1
Total	Lumens	7456.0	0.0	7456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	1.0
10°-20°	246.7	3.3
20°-30°	455.4	6.1
30°-40°	703.1	9.4
40°-50°	1058.4	14.2
50°-60°	1549.1	20.8
60°-70°	1829.3	24.5
70°-80°	1309.7	17.6
80°-90°	229.5	3.1
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°	7456.0	100.0
0°-180°	7456.0	100.0

Coefficient of Utilization

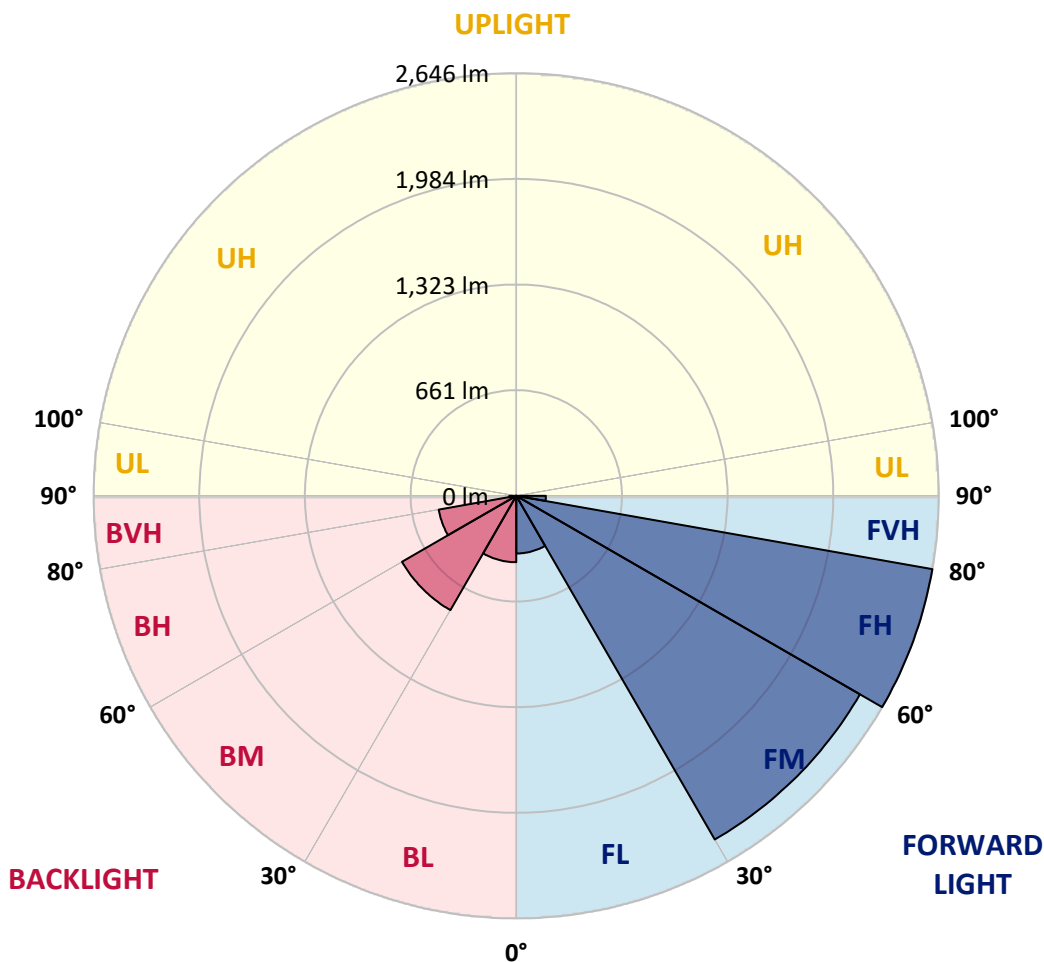


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	361.3	4.8			
FM (30°-60°)	2484.5	33.3			
FH (60°-80°)	2645.8	35.5			G2/5000
FVH (80°-90°)	185.7	2.5			G2/225
BL (0°-30°)	415.7	5.6	B1/500		
BM (30°-60°)	826.0	11.1	B1/1000		
BH (60°-80°)	493.2	6.6	B1/500		G1/500
BVH (80°-90°)	43.8	0.6			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	751.2	751.2	751.2	751.2	751.2	751.2	751.2	751.2	751.2	751.2	751.2
2.5°	742.1	745.7	743.9	745.7	751.2	747.5	747.5	749.4	751.2	749.4	753.0
5°	711.0	712.8	716.5	723.8	736.6	740.2	749.4	749.4	753.0	756.7	762.2
7.5°	659.8	663.5	670.8	678.1	700.0	722.0	745.7	749.4	762.2	771.3	775.0
10°	650.7	654.3	656.2	667.1	689.1	711.0	740.2	747.5	771.3	785.9	802.4
12.5°	641.5	645.2	650.7	665.3	692.7	716.5	747.5	754.9	784.1	813.3	833.4
15°	648.8	650.7	656.2	670.8	698.2	731.1	771.3	776.8	809.7	846.2	877.3
17.5°	667.1	668.9	667.1	679.9	705.5	743.9	798.7	807.9	848.1	884.6	915.7
20°	709.2	711.0	703.7	703.7	722.0	760.3	828.0	840.8	890.1	930.3	961.4
22.5°	800.5	796.9	778.6	754.9	754.9	785.9	860.9	879.1	941.3	974.2	1001.6
25°	930.3	930.3	901.1	857.2	828.0	824.3	899.2	919.3	992.5	1032.7	1049.1
27.5°	1087.5	1089.3	1041.8	983.3	926.7	899.2	954.1	974.2	1056.4	1098.5	1103.9
30°	1226.4	1228.2	1180.7	1125.9	1056.4	996.1	1027.2	1049.1	1144.2	1177.1	1158.8
32.5°	1365.3	1367.1	1334.2	1259.3	1186.2	1111.3	1120.4	1133.2	1230.1	1261.1	1231.9
35°	1485.9	1491.4	1458.5	1401.9	1325.1	1257.5	1241.0	1242.9	1330.6	1350.7	1312.3
37.5°	1608.4	1608.4	1588.3	1535.3	1469.5	1394.6	1372.6	1378.1	1456.7	1476.8	1422.0
40°	1763.8	1771.1	1760.1	1694.3	1619.4	1557.2	1535.3	1542.6	1628.5	1617.5	1559.0
42.5°	1952.0	1968.5	1950.2	1878.9	1798.5	1729.0	1729.0	1729.0	1802.1	1804.0	1716.2
45°	2193.3	2193.3	2175.0	2112.9	2006.8	1937.4	1913.6	1919.1	1983.1	1990.4	1888.0
47.5°	2394.3	2412.6	2392.5	2346.8	2262.7	2196.9	2122.0	2112.9	2165.9	2165.9	2078.1
50°	2557.0	2589.9	2573.4	2593.5	2533.2	2500.3	2346.8	2321.2	2339.5	2357.8	2260.9
52.5°	2692.2	2717.8	2712.3	2770.8	2800.1	2818.4	2575.3	2535.1	2549.7	2547.8	2460.1
55°	2701.4	2710.5	2792.8	2924.4	3039.5	3125.4	2805.6	2761.7	2747.1	2739.8	2672.1
57.5°	2648.4	2653.9	2818.4	2973.7	3224.1	3322.8	3023.1	2979.2	2959.1	2933.5	2906.1
60°	2520.4	2547.8	2763.5	3003.0	3333.8	3476.3	3225.9	3180.2	3165.6	3110.8	3172.9
62.5°	2357.8	2370.6	2586.2	2942.6	3348.4	3542.1	3439.8	3412.4	3366.7	3288.1	3410.5
65°	2127.5	2125.6	2315.7	2765.3	3273.5	3575.0	3620.7	3606.1	3549.4	3414.2	3622.6
67.5°	1747.3	1789.3	1975.8	2451.0	3092.5	3607.9	3805.3	3787.0	3697.5	3527.5	3723.1
70°	1332.4	1358.0	1570.0	1979.4	2732.4	3518.4	3986.3	3991.8	3829.1	3551.3	3679.2
72.5°	849.9	893.8	1061.9	1442.1	2187.8	3185.7	4094.1	4119.7	3902.2	3518.4	3406.9
73°	778.6	782.3	946.8	1334.2	2017.8	3066.9	4086.8	4127.0	3909.5	3485.5	3331.9
75°	464.2	484.3	583.0	886.4	1440.2	2463.8	3889.4	3969.8	3871.1	3339.3	2920.7
77.5°	217.5	232.1	287.0	467.9	784.1	1482.3	3269.8	3364.8	3430.6	2922.5	2226.2
80°	115.1	117.0	140.7	235.8	420.4	610.5	2279.2	2436.4	2529.6	2200.6	1496.9
82.5°	96.9	96.9	109.7	151.7	268.7	237.6	939.5	1118.6	1370.8	1083.8	588.5
85°	78.6	80.4	109.7	113.3	191.9	122.5	224.8	281.5	531.9	478.9	65.8
87.5°	25.6	29.2	62.1	80.4	102.4	47.5	56.7	62.1	62.1	91.4	21.9
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°	751.2	751.2	751.2	751.2	751.2	751.2	751.2	751.2	751.2	751.2	751.2
2.5°	754.9	754.9	756.7	758.5	762.2	762.2	765.8	767.6	771.3	773.1	767.6
5°	762.2	765.8	769.5	780.4	793.2	804.2	815.2	824.3	833.4	838.9	837.1
7.5°	782.3	787.7	802.4	822.5	848.1	864.5	881.0	897.4	904.7	908.4	908.4
10°	809.7	820.6	848.1	881.0	910.2	935.8	948.6	959.6	963.2	966.9	963.2
12.5°	848.1	862.7	904.7	946.8	979.7	992.5	990.6	976.0	955.9	952.2	948.6
15°	897.4	915.7	963.2	1012.6	1038.1	1021.7	979.7	965.0	961.4	972.3	968.7
17.5°	939.5	961.4	1019.9	1071.0	1065.6	1008.9	996.1	1003.4	999.8	1001.6	1001.6
20°	979.7	1010.7	1072.9	1107.6	1060.1	1023.5	1012.6	1003.4	992.5	996.1	992.5
22.5°	1030.8	1052.8	1124.1	1125.9	1052.8	1023.5	999.8	981.5	977.8	979.7	981.5
25°	1071.0	1105.8	1167.9	1113.1	1052.8	994.3	961.4	957.7	959.6	970.5	966.9
27.5°	1125.9	1160.6	1202.6	1105.8	1008.9	946.8	934.0	932.1	919.3	923.0	923.0
30°	1177.1	1219.1	1220.9	1105.8	954.1	906.6	888.3	855.4	828.0	833.4	831.6
32.5°	1246.5	1283.1	1224.6	1061.9	891.9	853.5	804.2	753.0	740.2	747.5	749.4
35°	1326.9	1356.2	1228.2	988.8	829.8	778.6	689.1	659.8	658.0	663.5	668.9
37.5°	1432.9	1449.4	1255.6	904.7	769.5	661.6	592.2	584.9	568.4	557.5	559.3
40°	1562.7	1542.6	1308.7	829.8	698.2	555.6	526.4	506.3	475.2	444.1	449.6
42.5°	1707.1	1650.4	1325.1	769.5	601.3	489.8	462.4	431.3	393.0	360.1	358.2
45°	1862.5	1771.1	1310.5	722.0	504.5	440.5	411.2	374.7	329.0	301.6	301.6
47.5°	2047.1	1886.2	1264.8	683.6	436.8	396.6	360.1	323.5	292.4	266.8	266.8
50°	2249.9	2019.6	1231.9	615.9	389.3	354.6	318.0	288.8	265.0	244.9	244.9
52.5°	2463.8	2145.7	1204.5	517.2	347.3	316.2	290.6	266.8	246.7	221.2	217.5
55°	2681.3	2266.4	1217.3	422.2	308.9	288.8	272.3	248.6	241.3	235.8	232.1
57.5°	2907.9	2398.0	1248.3	345.4	276.0	274.2	266.8	283.3	299.7	288.8	283.3
60°	3085.2	2500.3	1252.0	290.6	255.9	288.8	325.3	330.8	287.0	261.4	259.5
62.5°	3225.9	2597.2	1166.1	252.2	261.4	340.0	347.3	292.4	248.6	237.6	237.6
65°	3299.0	2631.9	937.6	230.3	272.3	325.3	314.4	263.2	232.1	230.3	230.3
67.5°	3262.5	2604.5	656.2	206.5	241.3	281.5	281.5	241.3	213.8	223.0	219.3
70°	3087.0	2469.3	433.2	186.4	212.0	254.1	261.4	224.8	199.2	204.7	199.2
72.5°	2721.5	2228.0	285.1	164.5	182.8	224.8	243.1	206.5	182.8	180.9	175.5
73°	2650.2	2136.6	268.7	160.8	177.3	217.5	237.6	202.9	179.1	173.6	170.0
75°	2248.1	1782.0	202.9	144.4	157.2	195.6	221.2	190.1	164.5	157.2	153.5
77.5°	1637.6	1235.5	151.7	122.5	131.6	170.0	195.6	173.6	146.2	137.1	135.3
80°	1021.7	672.6	113.3	98.7	104.2	142.6	171.8	155.4	126.1	115.1	113.3
82.5°	400.3	219.3	78.6	73.1	76.8	107.8	144.4	135.3	106.0	96.9	91.4
85°	65.8	74.9	51.2	49.3	49.3	76.8	109.7	104.2	71.3	62.1	54.8
87.5°	18.3	34.7	20.1	18.3	18.3	32.9	60.3	47.5	29.2	23.8	21.9
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)