

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: P595213

Luminaire Tested: **IST-PA1D-735-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595213
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-PA1D-735-U-T3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7671 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

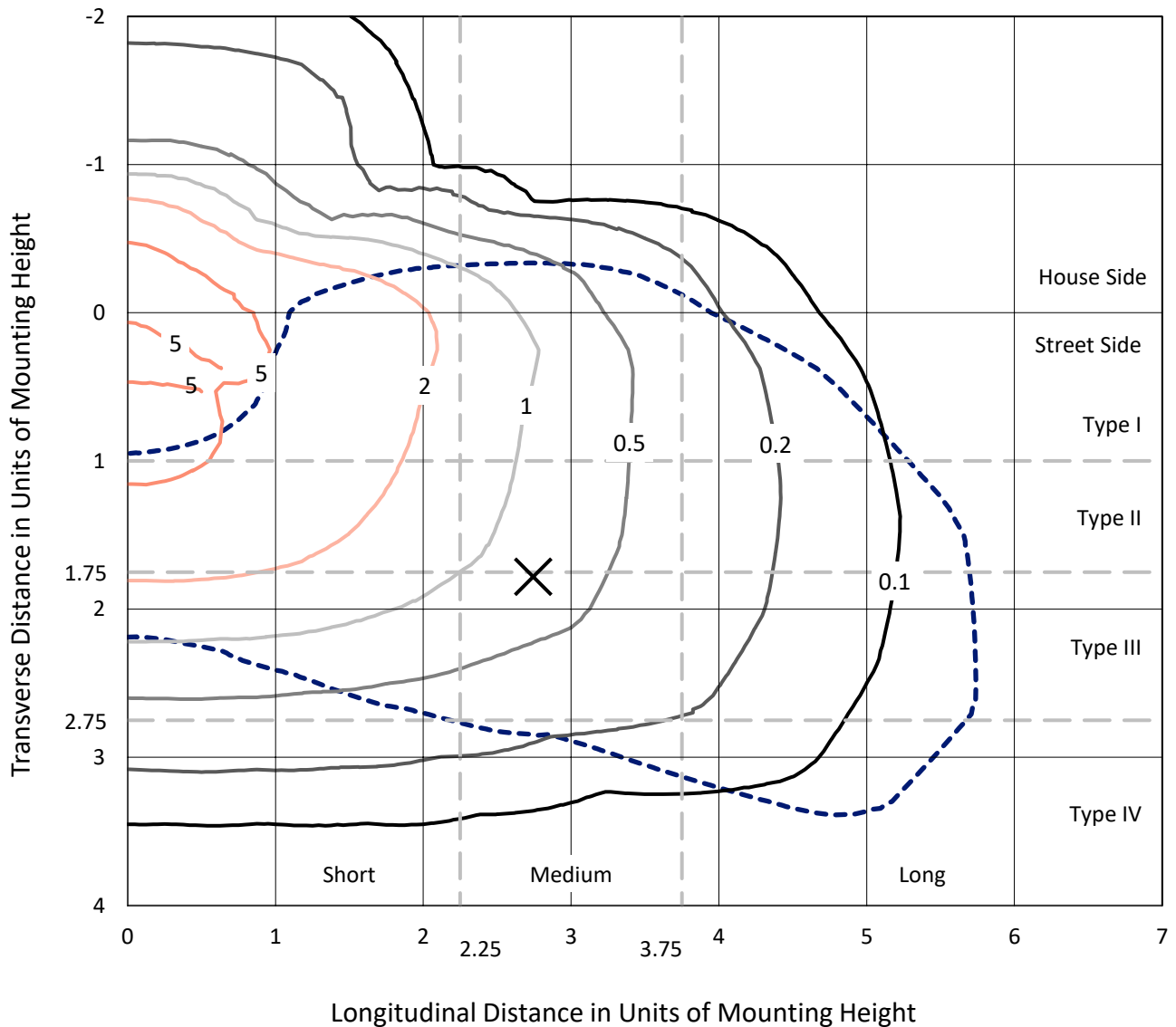
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: IST-PA1D-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

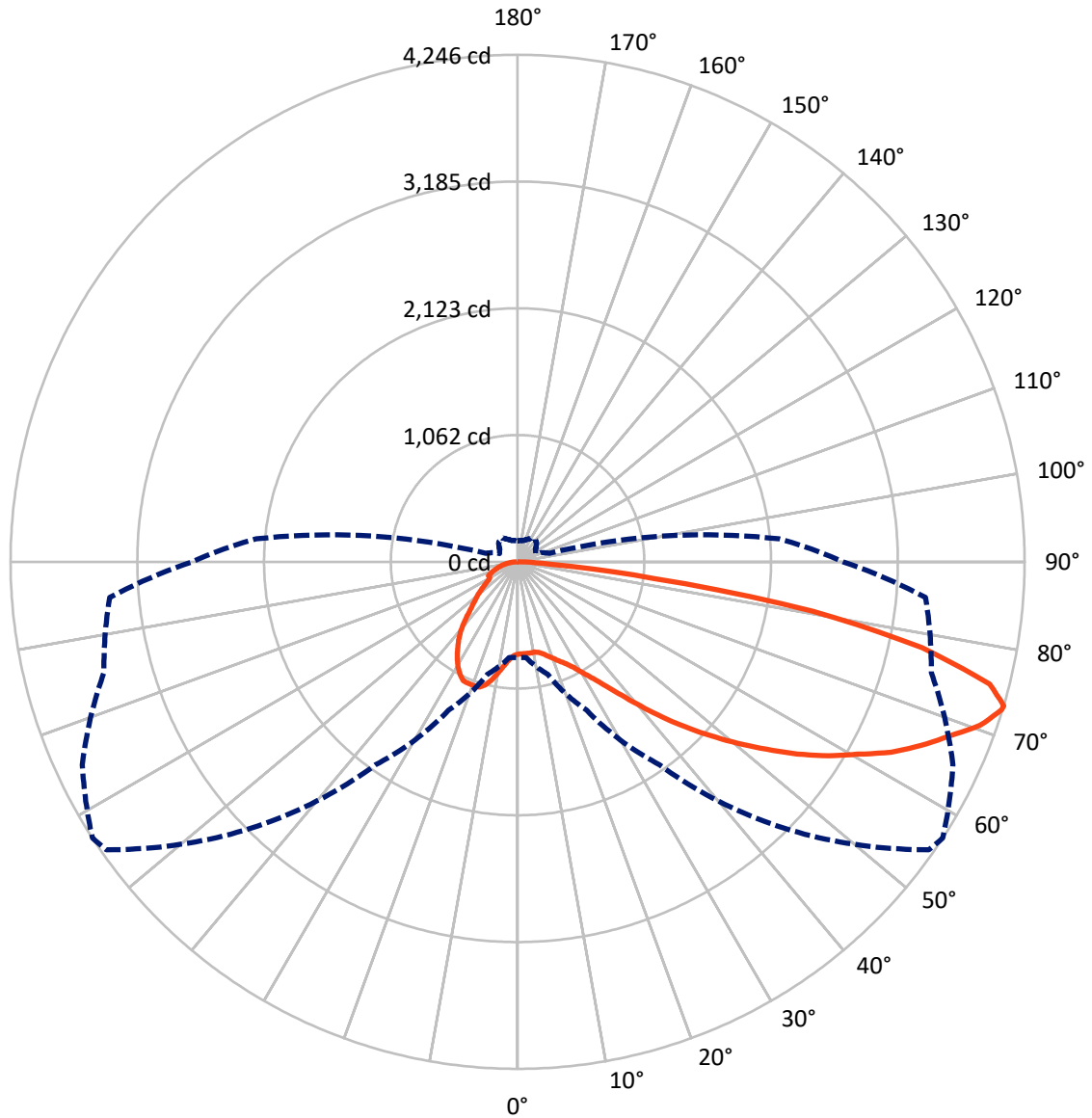
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Medium - N/A

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CATALOG NUMBER: IST-PA1D-735-U-T3

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	1830.0	0.0	1830.0
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	5841.0	0.0	5841.0
	% Fixture	76.1	0.0	76.1
Total	Lumens	7671.0	0.0	7671.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	1.0
10°-20°	253.8	3.3
20°-30°	468.5	6.1
30°-40°	723.4	9.4
40°-50°	1088.9	14.2
50°-60°	1593.7	20.8
60°-70°	1882.0	24.5
70°-80°	1347.4	17.6
80°-90°	236.1	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°	7671.0	100.0
0°-180°	7671.0	100.0

Coefficient of Utilization

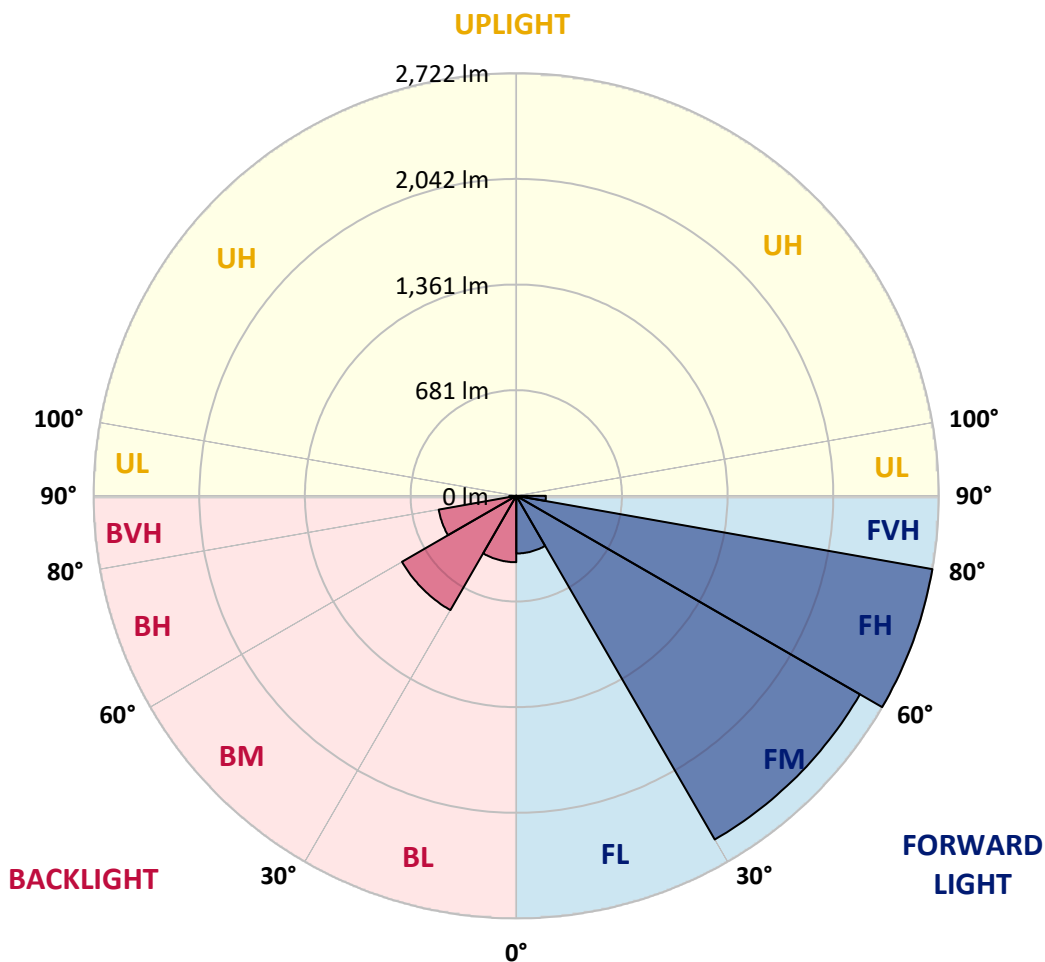


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	371.7	4.8			
FM (30°-60°)	2556.2	33.3			
FH (60°-80°)	2722.1	35.5			G2/5000
FVH (80°-90°)	191.0	2.5			G2/225
BL (0°-30°)	427.7	5.6	B1/500		
BM (30°-60°)	849.9	11.1	B1/1000		
BH (60°-80°)	507.4	6.6	B2/1000		G2/1000
BVH (80°-90°)	45.1	0.6			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 IV Medium





REPORT NUMBER: P595213

CATALOG NUMBER: IST-PA1D-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9
2.5°	763.5	767.2	765.3	767.2	772.9	769.1	769.1	771.0	772.9	771.0	774.7
5°	731.5	733.4	737.1	744.7	757.8	761.6	771.0	771.0	774.7	778.5	784.1
7.5°	678.8	682.6	690.1	697.6	720.2	742.8	767.2	771.0	784.1	793.5	797.3
10°	669.4	673.2	675.1	686.4	708.9	731.5	761.6	769.1	793.5	808.6	825.5
12.5°	660.0	663.8	669.4	684.5	712.7	737.1	769.1	776.6	806.7	836.8	857.5
15°	667.6	669.4	675.1	690.1	718.3	752.2	793.5	799.2	833.0	870.6	902.6
17.5°	686.4	688.2	686.4	699.5	725.8	765.3	821.7	831.1	872.5	910.1	942.1
20°	729.6	731.5	724.0	724.0	742.8	782.3	851.8	865.0	915.8	957.1	989.1
22.5°	823.6	819.9	801.1	776.6	776.6	808.6	885.7	904.5	968.4	1002.3	1030.5
25°	957.1	957.1	927.1	881.9	851.8	848.1	925.2	945.9	1021.1	1062.4	1079.4
27.5°	1118.9	1120.7	1071.8	1011.7	953.4	925.2	981.6	1002.3	1086.9	1130.1	1135.8
30°	1261.8	1263.6	1214.8	1158.3	1086.9	1024.8	1056.8	1079.4	1177.1	1211.0	1192.2
32.5°	1404.7	1406.6	1372.7	1295.6	1220.4	1143.3	1152.7	1165.9	1265.5	1297.5	1267.4
35°	1528.8	1534.4	1500.6	1442.3	1363.3	1293.7	1276.8	1278.7	1369.0	1389.6	1350.1
37.5°	1654.8	1654.8	1634.1	1579.6	1511.9	1434.8	1412.2	1417.8	1498.7	1519.4	1463.0
40°	1814.6	1822.1	1810.9	1743.2	1666.1	1602.1	1579.6	1587.1	1675.5	1664.2	1604.0
42.5°	2008.3	2025.2	2006.4	1933.1	1850.3	1778.9	1778.9	1778.9	1854.1	1856.0	1765.7
45°	2256.5	2256.5	2237.7	2173.8	2064.7	1993.3	1968.8	1974.5	2040.3	2047.8	1942.5
47.5°	2463.4	2482.2	2461.5	2414.5	2328.0	2260.3	2183.2	2173.8	2228.3	2228.3	2138.0
50°	2630.7	2664.6	2647.6	2668.3	2606.3	2572.4	2414.5	2388.1	2406.9	2425.8	2326.1
52.5°	2769.9	2796.2	2790.6	2850.7	2880.8	2899.6	2649.5	2608.2	2623.2	2621.3	2531.1
55°	2779.3	2788.7	2873.3	3008.7	3127.2	3215.5	2886.5	2841.3	2826.3	2818.8	2749.2
57.5°	2724.7	2730.4	2899.6	3059.5	3317.1	3418.6	3110.2	3065.1	3044.4	3018.1	2989.9
60°	2593.1	2621.3	2843.2	3089.5	3429.9	3576.6	3319.0	3271.9	3256.9	3200.5	3264.4
62.5°	2425.8	2438.9	2660.8	3027.5	3444.9	3644.3	3539.0	3510.8	3463.8	3382.9	3508.9
65°	2188.8	2186.9	2382.5	2845.1	3367.8	3678.1	3725.1	3710.1	3651.8	3512.6	3727.0
67.5°	1797.7	1840.9	2032.7	2521.7	3181.7	3712.0	3915.1	3896.3	3804.1	3629.2	3830.4
70°	1370.8	1397.2	1615.3	2036.5	2811.2	3619.8	4101.2	4106.9	3939.5	3653.7	3785.3
72.5°	874.4	919.5	1092.5	1483.7	2250.9	3277.6	4212.2	4238.5	4014.7	3619.8	3505.1
73°	801.1	804.8	974.1	1372.7	2076.0	3155.4	4204.6	4246.0	4022.2	3586.0	3428.0
75°	477.6	498.3	599.9	912.0	1481.8	2534.8	4001.6	4084.3	3982.7	3435.5	3004.9
77.5°	223.8	238.8	295.2	481.4	806.7	1525.0	3364.1	3461.9	3529.6	3006.8	2290.4
80°	118.5	120.3	144.8	242.6	432.5	628.1	2344.9	2506.6	2602.5	2264.0	1540.1
82.5°	99.7	99.7	112.8	156.1	276.4	244.5	966.5	1150.8	1410.3	1115.1	605.5
85°	80.9	82.7	112.8	116.6	197.4	126.0	231.3	289.6	547.2	492.7	67.7
87.5°	26.3	30.1	63.9	82.7	105.3	48.9	58.3	63.9	63.9	94.0	22.6
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: P595213
 CATALOG NUMBER: IST-PA1D-735-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9
2.5°	776.6	776.6	778.5	780.4	784.1	784.1	787.9	789.8	793.5	795.4	789.8
5°	784.1	787.9	791.7	802.9	816.1	827.4	838.7	848.1	857.5	863.1	861.2
7.5°	804.8	810.5	825.5	846.2	872.5	889.4	906.4	923.3	930.8	934.6	934.6
10°	833.0	844.3	872.5	906.4	936.5	962.8	975.9	987.2	991.0	994.7	991.0
12.5°	872.5	887.6	930.8	974.1	1007.9	1021.1	1019.2	1004.1	983.5	979.7	975.9
15°	923.3	942.1	991.0	1041.8	1068.1	1051.2	1007.9	992.9	989.1	1000.4	996.6
17.5°	966.5	989.1	1049.3	1101.9	1096.3	1038.0	1024.8	1032.4	1028.6	1030.5	1030.5
20°	1007.9	1039.9	1103.8	1139.5	1090.6	1053.0	1041.8	1032.4	1021.1	1024.8	1021.1
22.5°	1060.6	1083.1	1156.5	1158.3	1083.1	1053.0	1028.6	1009.8	1006.0	1007.9	1009.8
25°	1101.9	1137.7	1201.6	1145.2	1083.1	1023.0	989.1	985.3	987.2	998.5	994.7
27.5°	1158.3	1194.1	1237.3	1137.7	1038.0	974.1	960.9	959.0	945.9	949.6	949.6
30°	1211.0	1254.2	1256.1	1137.7	981.6	932.7	913.9	880.0	851.8	857.5	855.6
32.5°	1282.5	1320.1	1259.9	1092.5	917.6	878.2	827.4	774.7	761.6	769.1	771.0
35°	1365.2	1395.3	1263.6	1017.3	853.7	801.1	708.9	678.8	677.0	682.6	688.2
37.5°	1474.3	1491.2	1291.9	930.8	791.7	680.7	609.3	601.7	584.8	573.5	575.4
40°	1607.8	1587.1	1346.4	853.7	718.3	571.7	541.6	520.9	488.9	456.9	462.6
42.5°	1756.3	1698.0	1363.3	791.7	618.7	504.0	475.7	443.8	404.3	370.4	368.6
45°	1916.2	1822.1	1348.3	742.8	519.0	453.2	423.1	385.5	338.5	310.3	310.3
47.5°	2106.1	1940.6	1301.3	703.3	449.4	408.1	370.4	332.8	300.9	274.5	274.5
50°	2314.8	2077.9	1267.4	633.7	400.5	364.8	327.2	297.1	272.7	252.0	252.0
52.5°	2534.8	2207.6	1239.2	532.2	357.3	325.3	299.0	274.5	253.9	227.5	223.8
55°	2758.6	2331.7	1252.4	434.4	317.8	297.1	280.2	255.7	248.2	242.6	238.8
57.5°	2991.8	2467.1	1284.3	355.4	283.9	282.1	274.5	291.5	308.4	297.1	291.5
60°	3174.2	2572.4	1288.1	299.0	263.3	297.1	334.7	340.4	295.2	268.9	267.0
62.5°	3319.0	2672.1	1199.7	259.5	268.9	349.8	357.3	300.9	255.7	244.5	244.5
65°	3394.2	2707.8	964.7	236.9	280.2	334.7	323.4	270.8	238.8	236.9	236.9
67.5°	3356.6	2679.6	675.1	212.5	248.2	289.6	289.6	248.2	220.0	229.4	225.7
70°	3176.0	2540.5	445.7	191.8	218.1	261.4	268.9	231.3	205.0	210.6	205.0
72.5°	2800.0	2292.2	293.3	169.2	188.0	231.3	250.1	212.5	188.0	186.2	180.5
73°	2726.6	2198.2	276.4	165.5	182.4	223.8	244.5	208.7	184.3	178.6	174.9
75°	2312.9	1833.4	208.7	148.6	161.7	201.2	227.5	195.6	169.2	161.7	158.0
77.5°	1684.9	1271.2	156.1	126.0	135.4	174.9	201.2	178.6	150.4	141.0	139.2
80°	1051.2	692.0	116.6	101.5	107.2	146.7	176.8	159.8	129.7	118.5	116.6
82.5°	411.8	225.7	80.9	75.2	79.0	110.9	148.6	139.2	109.1	99.7	94.0
85°	67.7	77.1	52.7	50.8	50.8	79.0	112.8	107.2	73.3	63.9	56.4
87.5°	18.8	35.7	20.7	18.8	18.8	33.8	62.1	48.9	30.1	24.4	22.6
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)