

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: P595119

Luminaire Tested: **IST-PA1C-730-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1C-730-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6136 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

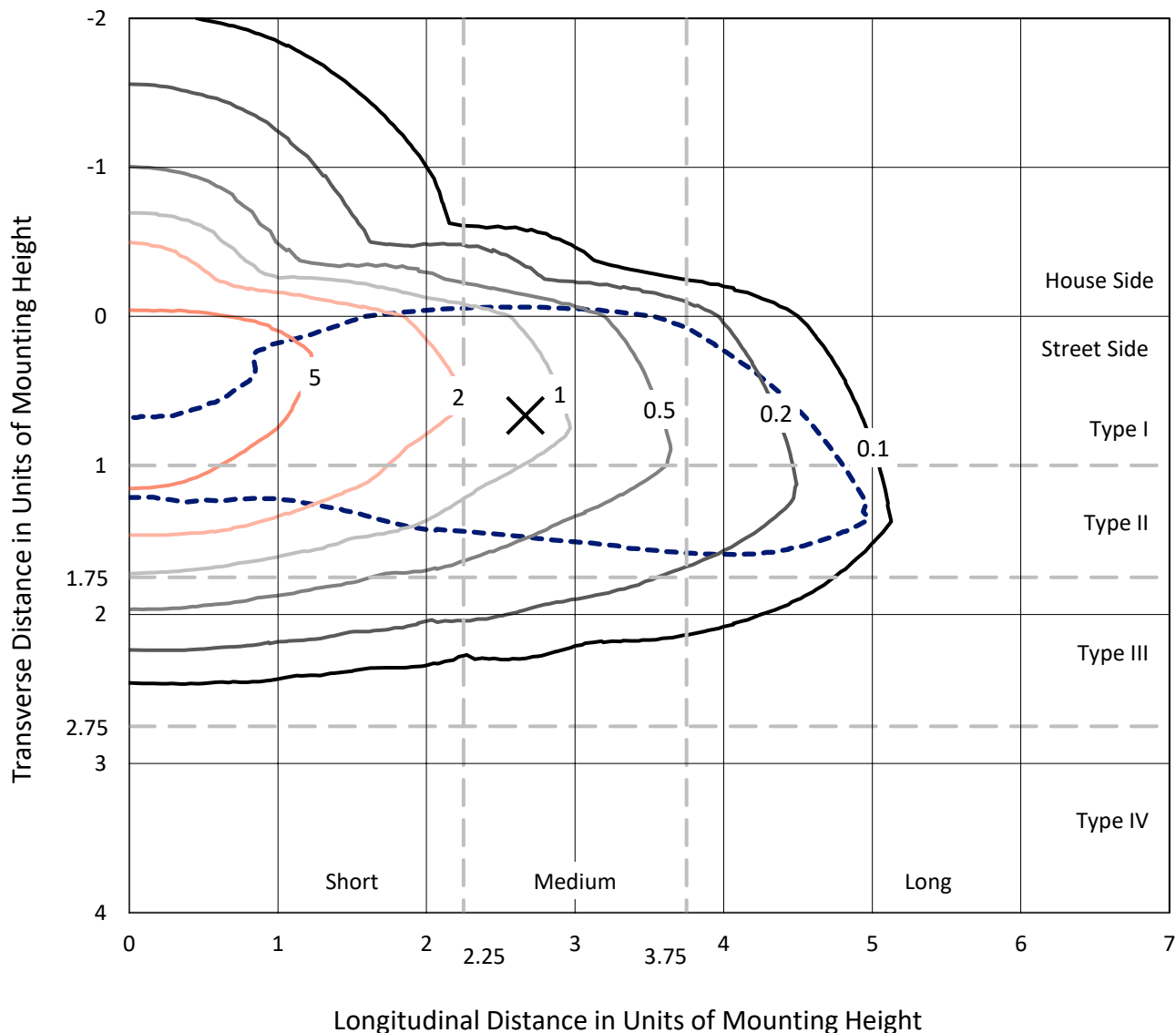
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

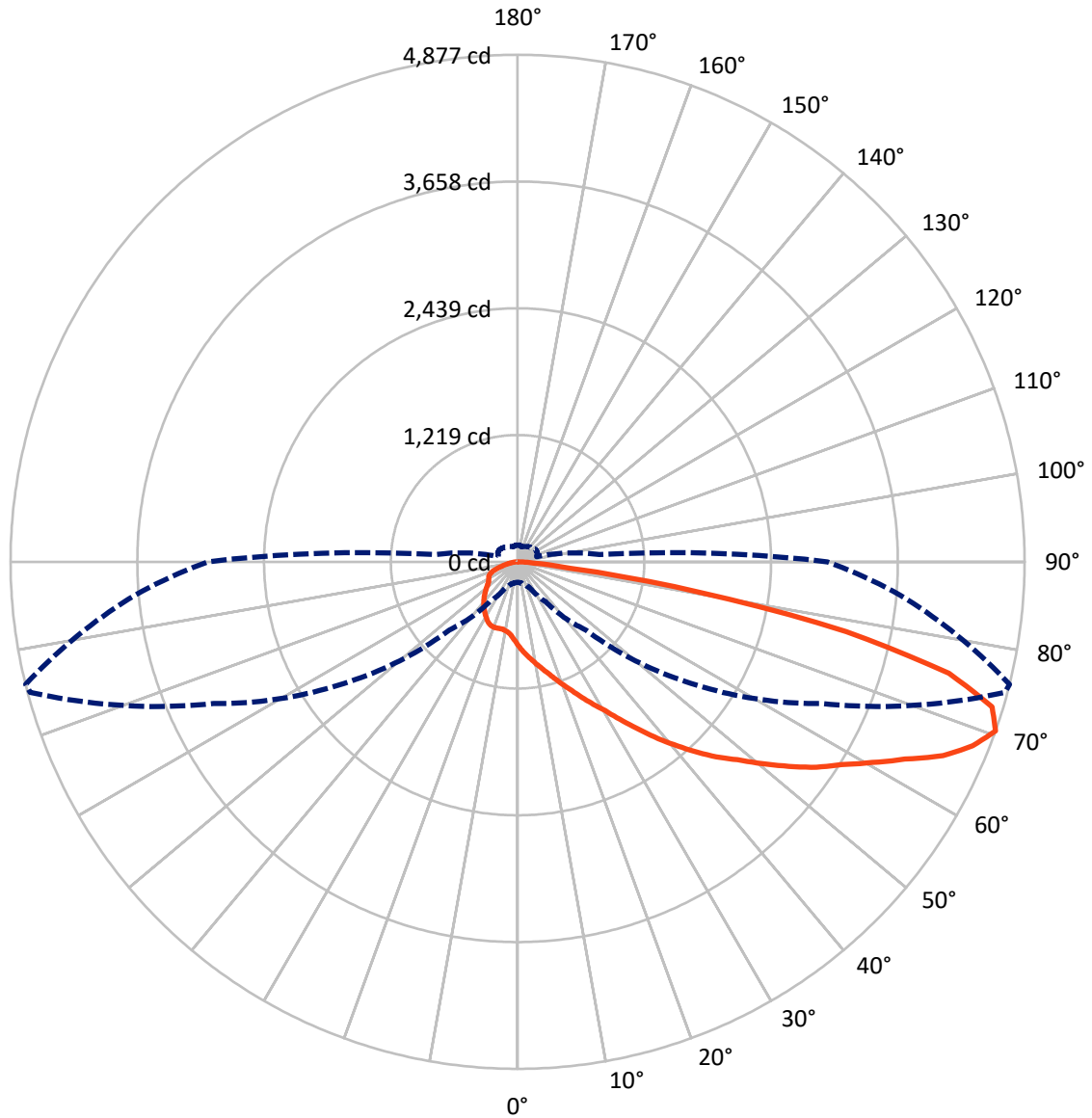
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	984.2	0.0	984.2
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	5151.8	0.0	5151.8
	% Fixture	84.0	0.0	84.0
Total	Lumens	6136.0	0.0	6136.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	1.3
10°-20°	258.9	4.2
20°-30°	477.1	7.8
30°-40°	799.3	13.0
40°-50°	1135.8	18.5
50°-60°	1311.4	21.4
60°-70°	1205.5	19.6
70°-80°	760.1	12.4
80°-90°	109.3	1.8
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°	6136.0	100.0
0°-180°	6136.0	100.0

Coefficient of Utilization

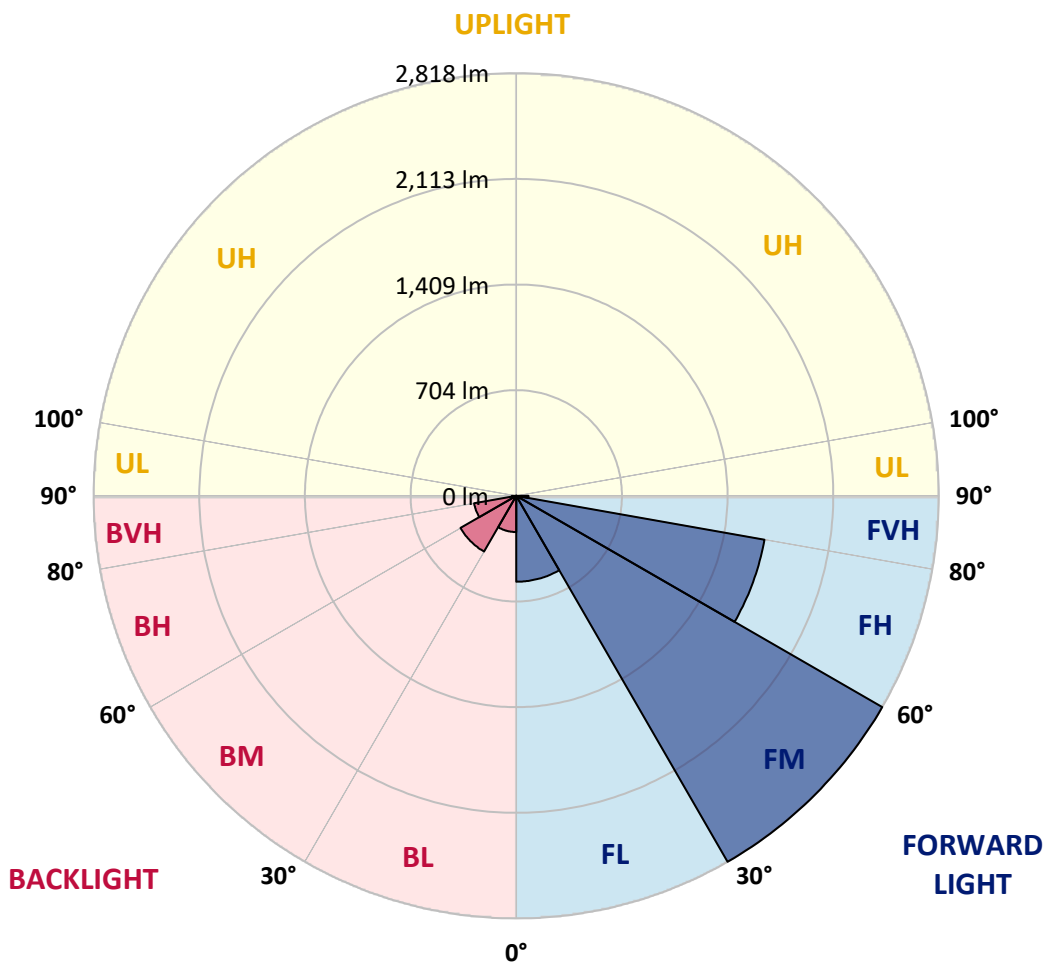


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	572.9	9.3			
FM (30°-60°)	2817.5	45.9			
FH (60°-80°)	1680.4	27.4			G1/1800
FVH (80°-90°)	81.0	1.3			G1/100
BL (0°-30°)	241.6	3.9	B1/500		
BM (30°-60°)	429.1	7.0	B1/1000		
BH (60°-80°)	285.2	4.6	B1/500		G1/500
BVH (80°-90°)	28.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0
2.5°	968.9	967.4	963.0	955.6	949.7	932.0	908.3	887.7	856.6	853.7	822.7
5°	1056.0	1050.1	1050.1	1042.7	1035.4	1016.2	986.6	949.7	905.4	902.4	843.4
7.5°	1097.4	1098.9	1095.9	1090.0	1091.5	1075.2	1048.7	1011.7	951.2	948.2	871.4
10°	1156.5	1155.0	1149.1	1144.7	1143.2	1128.4	1104.8	1070.8	1007.3	1001.4	903.9
12.5°	1214.1	1209.6	1211.1	1209.6	1206.7	1191.9	1169.8	1135.8	1057.5	1054.6	943.8
15°	1246.6	1245.1	1255.4	1258.4	1270.2	1256.9	1237.7	1199.3	1128.4	1116.6	991.1
17.5°	1267.2	1265.8	1276.1	1299.7	1321.9	1321.9	1316.0	1274.6	1196.4	1187.5	1044.2
20°	1302.7	1308.6	1326.3	1345.5	1378.0	1383.9	1382.4	1364.7	1274.6	1265.8	1103.3
22.5°	1373.6	1370.6	1385.4	1414.9	1444.5	1453.3	1454.8	1454.8	1364.7	1348.5	1163.9
25°	1525.7	1518.3	1506.5	1503.6	1539.0	1537.5	1533.1	1543.4	1459.3	1447.4	1233.3
27.5°	1815.2	1799.0	1753.2	1661.6	1640.9	1648.3	1626.2	1627.6	1567.1	1552.3	1292.4
30°	2089.9	2082.5	2039.7	1928.9	1812.2	1770.9	1732.5	1716.2	1686.7	1661.6	1355.9
32.5°	2338.1	2339.5	2287.8	2166.7	2047.1	1917.1	1850.7	1816.7	1828.5	1806.3	1443.0
35°	2506.4	2493.1	2460.6	2379.4	2249.4	2125.4	1998.3	1923.0	1986.5	1961.4	1530.1
37.5°	2605.4	2595.0	2568.5	2510.9	2445.9	2326.2	2165.2	2050.0	2174.1	2137.2	1640.9
40°	2655.6	2640.8	2614.2	2590.6	2559.6	2494.6	2352.8	2194.8	2345.4	2312.9	1750.2
42.5°	2661.5	2651.2	2636.4	2624.6	2634.9	2626.1	2536.0	2363.2	2525.6	2490.2	1875.8
45°	2657.1	2664.5	2646.7	2626.1	2646.7	2722.1	2722.1	2531.5	2704.3	2677.8	1995.4
47.5°	2660.0	2652.6	2646.7	2640.8	2643.8	2747.2	2850.6	2689.6	2875.7	2844.7	2135.7
50°	2537.4	2547.8	2598.0	2620.2	2633.4	2753.1	2954.0	2860.9	3088.4	3050.0	2292.3
52.5°	2147.5	2153.4	2382.4	2547.8	2601.0	2729.5	3026.3	3051.4	3298.1	3268.5	2460.6
55°	1654.2	1685.2	1902.3	2307.0	2527.1	2689.6	3048.5	3175.5	3512.2	3488.6	2630.5
57.5°	1361.8	1366.2	1491.7	1853.6	2293.7	2652.6	3070.6	3289.2	3704.3	3677.7	2807.7
60°	1129.9	1119.5	1196.4	1429.7	1905.3	2505.0	3075.1	3379.3	3927.3	3918.4	2990.9
62.5°	830.1	841.9	915.7	1113.6	1490.3	2205.1	3052.9	3456.1	4193.1	4181.3	3194.7
65°	509.6	524.3	614.4	796.1	1128.4	1750.2	2908.2	3496.0	4472.3	4498.9	3414.8
67.5°	270.3	280.6	333.8	481.5	773.9	1333.7	2559.6	3445.8	4708.6	4720.4	3626.0
70°	197.9	199.4	217.1	271.8	466.7	927.5	2038.2	3227.2	4853.3	4877.0	3695.4
72.5°	172.8	174.3	181.7	195.0	254.0	565.7	1460.7	2846.1	4792.8	4772.1	3578.7
75°	156.6	156.6	162.5	166.9	186.1	313.1	895.0	2329.2	4330.5	4284.7	3051.4
77.5°	134.4	134.4	140.3	146.2	161.0	202.3	468.2	1726.6	3311.4	3233.1	2087.0
80°	107.8	107.8	115.2	122.6	141.8	152.1	228.9	1155.0	1893.5	1778.3	949.7
82.5°	73.8	79.8	93.0	101.9	118.2	107.8	134.4	499.2	596.7	516.9	214.2
85°	44.3	47.3	66.5	76.8	88.6	57.6	82.7	192.0	178.7	156.6	48.7
87.5°	4.4	7.4	26.6	31.0	31.0	16.2	35.4	45.8	51.7	53.2	11.8
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°	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0
2.5°	805.0	787.2	753.3	722.2	691.2	670.5	649.9	642.5	632.1	624.8	630.7
5°	812.3	775.4	710.4	655.8	618.9	590.8	577.5	570.1	564.2	562.7	561.3
7.5°	821.2	766.6	679.4	618.9	583.4	570.1	567.2	567.2	567.2	568.6	570.1
10°	840.4	769.5	663.2	598.2	579.0	576.0	577.5	583.4	583.4	584.9	584.9
12.5°	862.6	776.9	651.3	595.2	583.4	584.9	586.4	589.3	589.3	593.7	592.3
15°	895.0	791.7	649.9	598.2	587.8	584.9	584.9	583.4	583.4	583.4	586.4
17.5°	936.4	812.3	651.3	598.2	583.4	577.5	573.1	568.6	562.7	565.7	562.7
20°	977.8	837.4	651.3	590.8	571.6	556.8	543.5	536.1	528.8	527.3	528.8
22.5°	1029.5	867.0	644.0	574.5	546.5	525.8	506.6	496.3	484.4	480.0	477.1
25°	1073.8	890.6	629.2	550.9	518.4	488.9	463.8	446.0	431.3	428.3	428.3
27.5°	1119.5	911.3	607.0	521.4	478.5	446.0	418.0	395.8	381.1	379.6	378.1
30°	1162.4	929.0	577.5	488.9	443.1	404.7	372.2	353.0	339.7	332.3	327.9
32.5°	1218.5	952.6	549.4	456.4	401.7	363.3	333.8	317.5	299.8	288.0	283.6
35°	1289.4	980.7	518.4	420.9	364.8	326.4	308.7	285.1	262.9	249.6	245.2
37.5°	1369.2	1020.6	485.9	384.0	327.9	299.8	289.5	252.6	228.9	224.5	223.0
40°	1468.1	1059.0	449.0	345.6	292.4	285.1	267.3	228.9	217.1	215.6	214.2
42.5°	1567.1	1100.3	413.6	307.2	264.4	267.3	242.2	223.0	212.7	209.7	208.3
45°	1682.3	1141.7	378.1	273.2	242.2	242.2	228.9	217.1	208.3	205.3	205.3
47.5°	1803.4	1183.1	339.7	243.7	226.0	217.1	218.6	209.7	203.8	200.9	199.4
50°	1955.5	1222.9	304.3	223.0	215.6	203.8	208.3	202.3	199.4	196.4	195.0
52.5°	2098.8	1240.7	271.8	211.2	209.7	197.9	199.4	196.4	195.0	190.5	189.1
55°	2239.1	1236.2	246.7	205.3	202.3	196.4	193.5	192.0	190.5	186.1	184.6
57.5°	2395.7	1230.3	230.4	203.8	197.9	192.0	192.0	187.6	181.7	181.7	181.7
60°	2558.1	1211.1	223.0	203.8	196.4	192.0	189.1	184.6	178.7	180.2	178.7
62.5°	2741.3	1174.2	218.6	208.3	197.9	190.5	187.6	181.7	174.3	175.8	174.3
65°	2902.3	1098.9	215.6	212.7	200.9	192.0	184.6	177.2	168.4	169.9	168.4
67.5°	3011.6	971.8	206.8	215.6	205.3	190.5	181.7	171.3	159.5	165.4	163.9
70°	2980.5	790.2	190.5	209.7	209.7	192.0	177.2	163.9	150.7	162.5	158.0
72.5°	2739.8	593.7	159.5	189.1	206.8	192.0	168.4	152.1	140.3	147.7	138.8
75°	2249.4	403.2	127.0	150.7	193.5	193.5	161.0	140.3	125.5	121.1	118.2
77.5°	1403.1	251.1	99.0	110.8	162.5	192.0	153.6	125.5	104.9	101.9	99.0
80°	555.3	134.4	78.3	79.8	119.6	175.8	143.3	106.3	84.2	81.2	75.3
82.5°	127.0	67.9	54.6	53.2	73.8	143.3	130.0	84.2	65.0	65.0	54.6
85°	38.4	35.4	35.4	34.0	36.9	73.8	100.4	57.6	44.3	31.0	26.6
87.5°	10.3	14.8	13.3	11.8	11.8	10.3	32.5	14.8	8.9	4.4	3.0
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)