

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: P595200

Luminaire Tested: **IST-PA1D-730-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595200  
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-PA1D-730-U-T2R  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7637 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

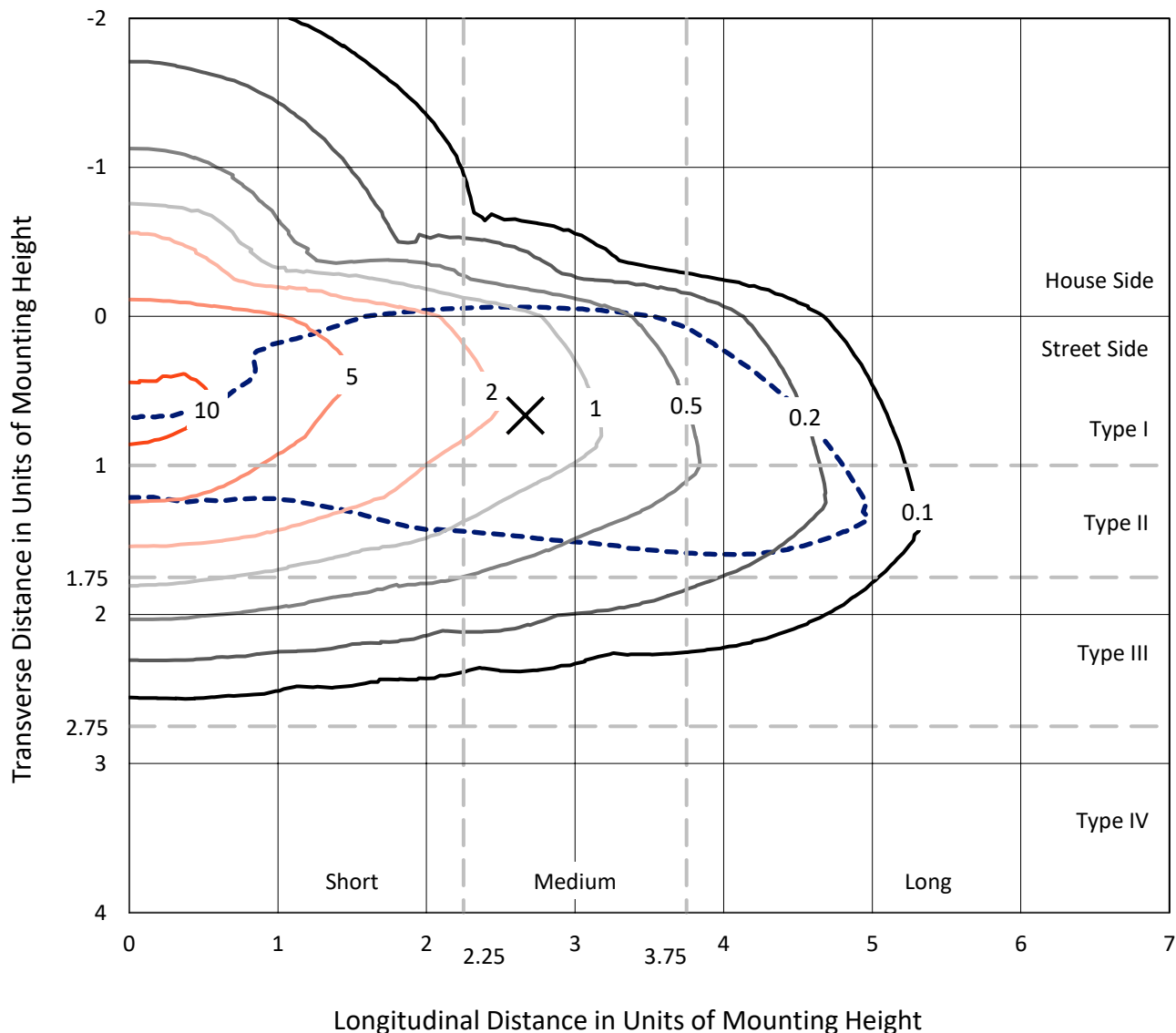
Input Watts (W): 62.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P595200  
 CATALOG NUMBER: IST-PA1D-730-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

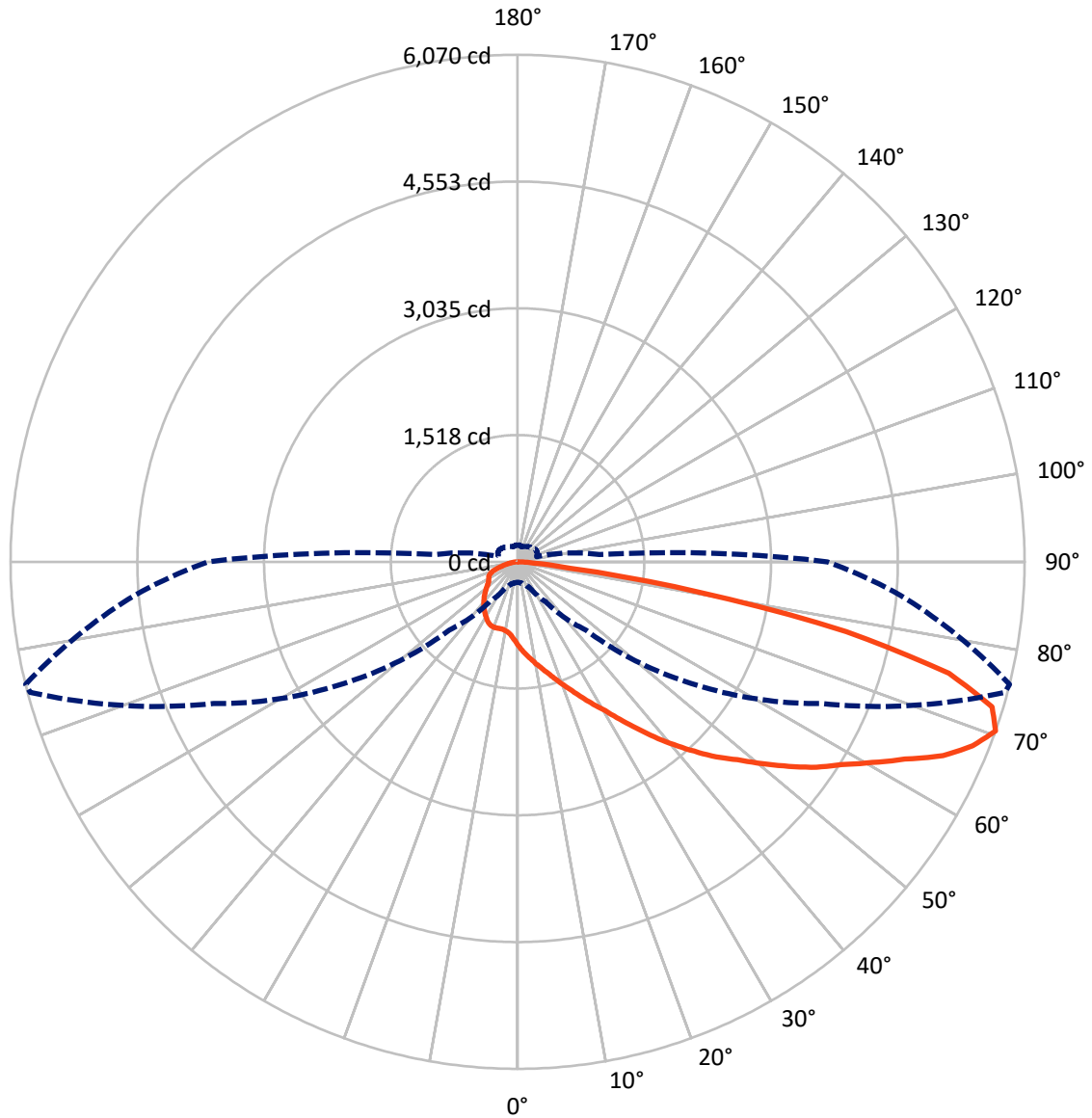
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 12.1 fc  
 Type II - Medium - N/A

REPORT NUMBER: P595200  
CATALOG NUMBER: IST-PA1D-730-U-T2R

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P595200  
 CATALOG NUMBER: IST-PA1D-730-U-T2R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1224.9	0.0	1224.9
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	6412.1	0.0	6412.1
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	7637.0	0.0	7637.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.7	1.3
10°-20°	322.2	4.2
20°-30°	593.8	7.8
30°-40°	994.9	13.0
40°-50°	1413.7	18.5
50°-60°	1632.2	21.4
60°-70°	1500.4	19.6
70°-80°	946.1	12.4
80°-90°	136.1	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°	7637.0	100.0
0°-180°	7637.0	100.0

**Coefficient of Utilization**



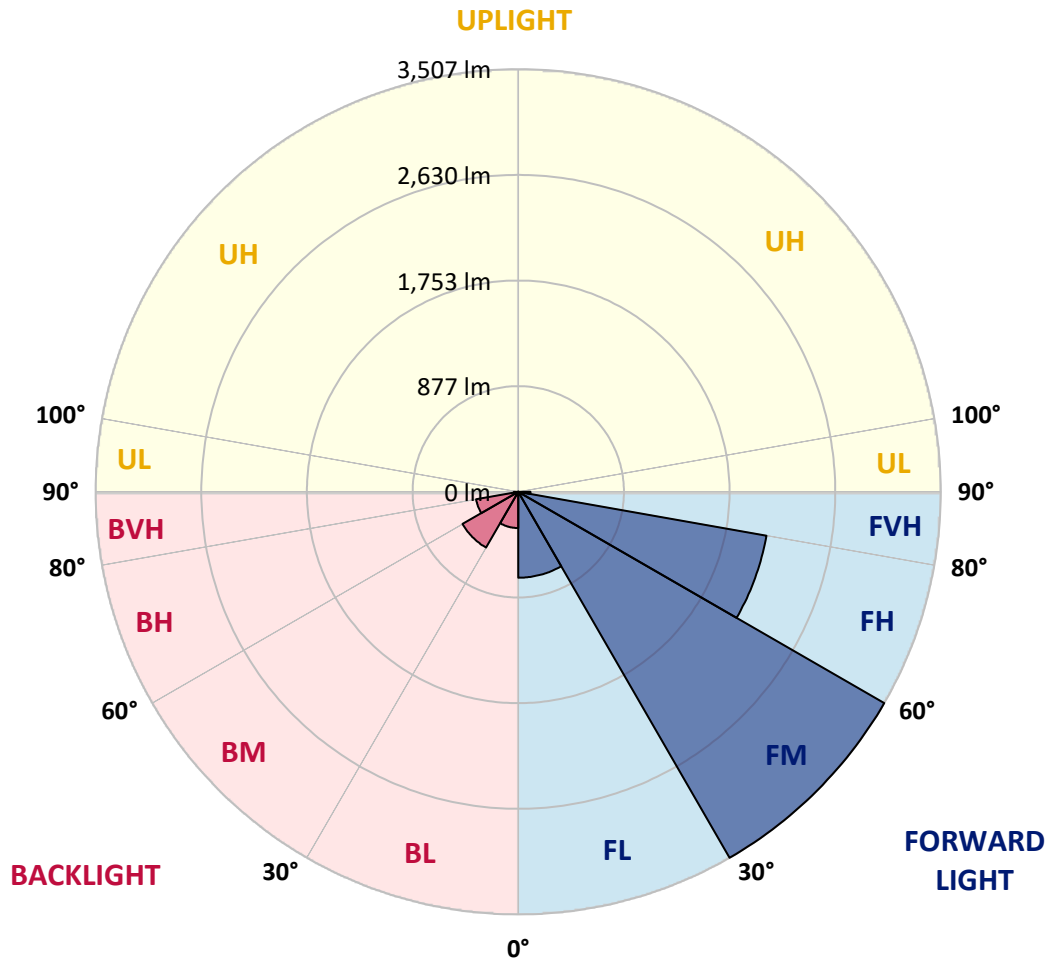
REPORT NUMBER: P595200  
 CATALOG NUMBER: IST-PA1D-730-U-T2R

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	713.0	9.3			
FM (30°-60°)	3506.7	45.9			
FH (60°-80°)	2091.5	27.4			G2/5000
FVH (80°-90°)	100.9	1.3			G2/225
BL (0°-30°)	300.7	3.9	B1/500		
BM (30°-60°)	534.0	7.0	B1/1000		
BH (60°-80°)	355.0	4.6	B1/500		G1/500
BVH (80°-90°)	35.2	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-G2**

Type II Medium





REPORT NUMBER: P595200  
 CATALOG NUMBER: IST-PA1D-730-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1001.9	1001.9	1001.9	1001.9	1001.9	1001.9	1001.9	1001.9	1001.9	1001.9	1001.9
2.5°	1205.9	1204.1	1198.6	1189.4	1182.0	1160.0	1130.5	1104.8	1066.2	1062.5	1023.9
5°	1314.4	1307.0	1307.0	1297.8	1288.6	1264.7	1228.0	1182.0	1126.9	1123.2	1049.7
7.5°	1365.8	1367.7	1364.0	1356.6	1358.5	1338.3	1305.2	1259.2	1183.8	1180.2	1084.6
10°	1439.4	1437.5	1430.2	1424.7	1422.8	1404.4	1375.0	1332.8	1253.7	1246.4	1125.0
12.5°	1511.1	1505.5	1507.4	1505.5	1501.9	1483.5	1455.9	1413.6	1316.2	1312.5	1174.7
15°	1551.5	1549.7	1562.5	1566.2	1580.9	1564.4	1540.5	1492.7	1404.4	1389.7	1233.5
17.5°	1577.2	1575.4	1588.3	1617.7	1645.3	1645.3	1637.9	1586.4	1489.0	1478.0	1299.7
20°	1621.4	1628.7	1650.8	1674.7	1715.1	1722.5	1720.6	1698.6	1586.4	1575.4	1373.2
22.5°	1709.6	1705.9	1724.3	1761.1	1797.8	1808.9	1810.7	1810.7	1698.6	1678.3	1448.6
25°	1898.9	1889.7	1875.0	1871.4	1915.5	1913.6	1908.1	1921.0	1816.2	1801.5	1535.0
27.5°	2259.2	2239.0	2182.0	2068.1	2042.3	2051.5	2023.9	2025.8	1950.4	1932.0	1608.5
30°	2601.2	2592.0	2538.7	2400.8	2255.6	2204.1	2156.3	2136.1	2099.3	2068.1	1687.5
32.5°	2910.0	2911.8	2847.5	2696.8	2547.9	2386.1	2303.4	2261.1	2275.8	2248.2	1796.0
35°	3119.6	3103.0	3062.6	2961.5	2799.7	2645.3	2487.2	2393.4	2472.5	2441.2	1904.5
37.5°	3242.7	3229.9	3196.8	3125.1	3044.2	2895.3	2694.9	2551.5	2705.9	2660.0	2042.3
40°	3305.2	3286.8	3253.7	3224.3	3185.7	3104.8	2928.4	2731.7	2919.2	2878.7	2178.4
42.5°	3312.6	3299.7	3281.3	3266.6	3279.5	3268.5	3156.3	2941.2	3143.5	3099.3	2334.6
45°	3307.1	3316.3	3294.2	3268.5	3294.2	3387.9	3387.9	3150.8	3365.9	3332.8	2483.5
47.5°	3310.7	3301.5	3294.2	3286.8	3290.5	3419.2	3547.9	3347.5	3579.1	3540.5	2658.1
50°	3158.2	3171.0	3233.5	3261.1	3277.6	3426.5	3676.6	3560.7	3843.8	3796.0	2853.0
52.5°	2672.9	2680.2	2965.1	3171.0	3237.2	3397.1	3766.6	3797.9	4104.9	4068.1	3062.6
55°	2058.9	2097.5	2367.7	2871.4	3145.3	3347.5	3794.2	3952.3	4371.4	4342.0	3274.0
57.5°	1694.9	1700.4	1856.7	2307.0	2854.8	3301.5	3821.8	4093.8	4610.4	4577.3	3494.6
60°	1406.3	1393.4	1489.0	1779.5	2371.4	3117.7	3827.3	4206.0	4888.0	4876.9	3722.5
62.5°	1033.1	1047.8	1139.7	1386.1	1854.8	2744.5	3799.7	4301.6	5218.9	5204.2	3976.2
65°	634.2	652.6	764.7	990.8	1404.4	2178.4	3619.6	4351.2	5566.3	5599.4	4250.1
67.5°	336.4	349.3	415.5	599.3	963.3	1660.0	3185.7	4288.7	5860.4	5875.1	4513.0
70°	246.3	248.2	270.2	338.2	580.9	1154.4	2536.8	4016.6	6040.6	6070.0	4599.4
72.5°	215.1	216.9	226.1	242.7	316.2	704.1	1818.1	3542.4	5965.2	5939.5	4454.1
75°	194.9	194.9	202.2	207.7	231.6	389.7	1114.0	2899.0	5389.8	5332.8	3797.9
77.5°	167.3	167.3	174.6	182.0	200.4	251.8	582.7	2148.9	4121.4	4024.0	2597.5
80°	134.2	134.2	143.4	152.6	176.5	189.3	284.9	1437.5	2356.7	2213.3	1182.0
82.5°	91.9	99.3	115.8	126.8	147.1	134.2	167.3	621.3	742.7	643.4	266.6
85°	55.1	58.8	82.7	95.6	110.3	71.7	102.9	239.0	222.4	194.9	60.7
87.5°	5.5	9.2	33.1	38.6	38.6	20.2	44.1	57.0	64.3	66.2	14.7
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: P595200  
 CATALOG NUMBER: IST-PA1D-730-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1001.9	1001.9	1001.9	1001.9	1001.9	1001.9	1001.9	1001.9	1001.9	1001.9	1001.9
2.5°	1001.9	979.8	937.5	898.9	860.3	834.6	808.8	799.7	786.8	777.6	784.9
5°	1011.1	965.1	884.2	816.2	770.2	735.3	718.8	709.6	702.2	700.4	698.5
7.5°	1022.1	954.1	845.6	770.2	726.1	709.6	705.9	705.9	705.9	707.7	709.6
10°	1046.0	957.7	825.4	744.5	720.6	716.9	718.8	726.1	726.1	728.0	728.0
12.5°	1073.6	966.9	810.7	740.8	726.1	728.0	729.8	733.5	733.5	739.0	737.1
15°	1114.0	985.3	808.8	744.5	731.6	728.0	728.0	726.1	726.1	726.1	729.8
17.5°	1165.5	1011.1	810.7	744.5	726.1	718.8	713.3	707.7	700.4	704.1	700.4
20°	1216.9	1042.3	810.7	735.3	711.4	693.0	676.5	667.3	658.1	656.3	658.1
22.5°	1281.3	1079.1	801.5	715.1	680.2	654.4	630.5	617.7	603.0	597.4	593.8
25°	1336.4	1108.5	783.1	685.7	645.2	608.5	577.2	555.2	536.8	533.1	533.1
27.5°	1393.4	1134.2	755.5	648.9	595.6	555.2	520.2	492.7	474.3	472.4	470.6
30°	1446.7	1156.3	718.8	608.5	551.5	503.7	463.2	439.3	422.8	413.6	408.1
32.5°	1516.6	1185.7	683.8	568.0	500.0	452.2	415.5	395.2	373.2	358.5	352.9
35°	1604.8	1220.6	645.2	523.9	454.1	406.3	384.2	354.8	327.2	310.7	305.2
37.5°	1704.1	1270.2	604.8	478.0	408.1	373.2	360.3	314.3	284.9	279.4	277.6
40°	1827.2	1318.0	558.8	430.2	364.0	354.8	332.7	284.9	270.2	268.4	266.6
42.5°	1950.4	1369.5	514.7	382.4	329.1	332.7	301.5	277.6	264.7	261.0	259.2
45°	2093.8	1421.0	470.6	340.1	301.5	301.5	284.9	270.2	259.2	255.5	255.5
47.5°	2244.5	1472.5	422.8	303.3	281.3	270.2	272.1	261.0	253.7	250.0	248.2
50°	2433.9	1522.1	378.7	277.6	268.4	253.7	259.2	251.8	248.2	244.5	242.7
52.5°	2612.2	1544.2	338.2	262.9	261.0	246.3	248.2	244.5	242.7	237.1	235.3
55°	2786.8	1538.6	307.0	255.5	251.8	244.5	240.8	239.0	237.1	231.6	229.8
57.5°	2981.7	1531.3	286.8	253.7	246.3	239.0	239.0	233.5	226.1	226.1	226.1
60°	3183.9	1507.4	277.6	253.7	244.5	239.0	235.3	229.8	222.4	224.3	222.4
62.5°	3411.8	1461.4	272.1	259.2	246.3	237.1	233.5	226.1	216.9	218.8	216.9
65°	3612.2	1367.7	268.4	264.7	250.0	239.0	229.8	220.6	209.6	211.4	209.6
67.5°	3748.2	1209.6	257.4	268.4	255.5	237.1	226.1	213.2	198.5	205.9	204.0
70°	3709.6	983.5	237.1	261.0	261.0	239.0	220.6	204.0	187.5	202.2	196.7
72.5°	3410.0	739.0	198.5	235.3	257.4	239.0	209.6	189.3	174.6	183.8	172.8
75°	2799.7	501.8	158.1	187.5	240.8	240.8	200.4	174.6	156.3	150.7	147.1
77.5°	1746.4	312.5	123.2	137.9	202.2	239.0	191.2	156.3	130.5	126.8	123.2
80°	691.2	167.3	97.4	99.3	148.9	218.8	178.3	132.4	104.8	101.1	93.8
82.5°	158.1	84.6	68.0	66.2	91.9	178.3	161.8	104.8	80.9	80.9	68.0
85°	47.8	44.1	44.1	42.3	46.0	91.9	125.0	71.7	55.1	38.6	33.1
87.5°	12.9	18.4	16.5	14.7	14.7	12.9	40.4	18.4	11.0	5.5	3.7
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)