

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: P595206

Luminaire Tested: **IST-PA1D-730-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
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-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7507 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

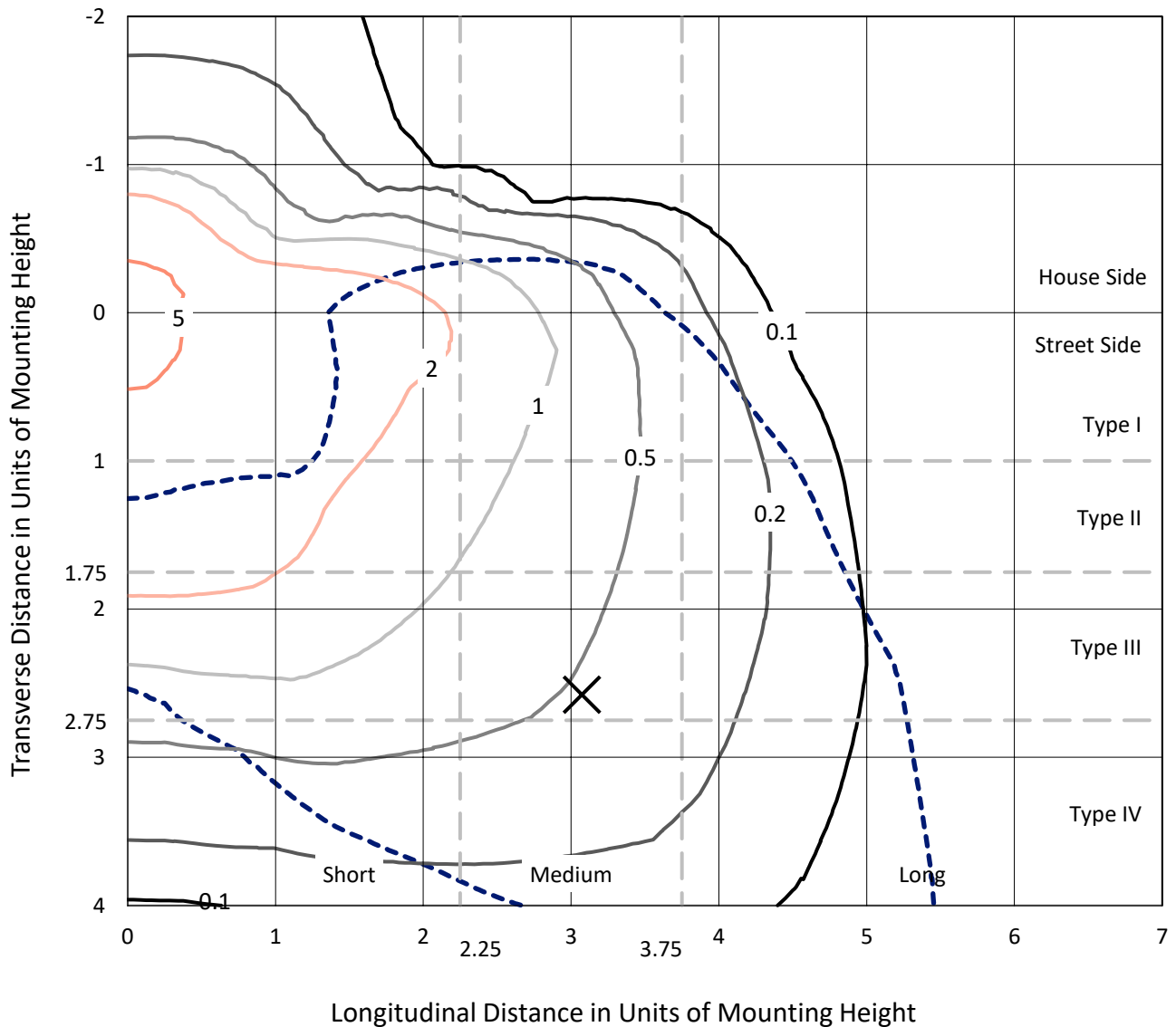
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

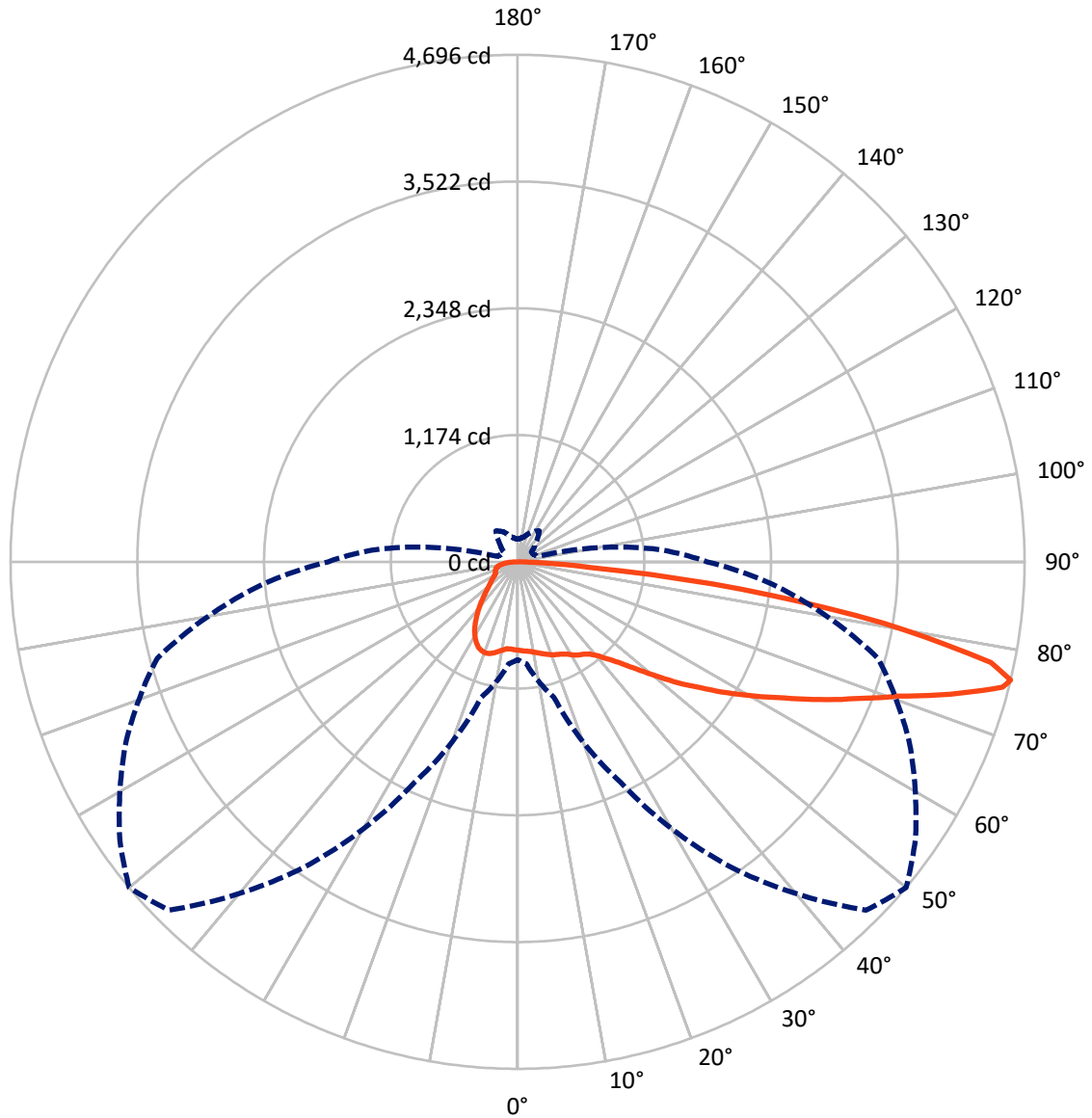
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1717.3	0.0	1717.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	5789.7	0.0	5789.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	7507.0	0.0	7507.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	1.1
10°-20°	249.8	3.3
20°-30°	422.0	5.6
30°-40°	578.4	7.7
40°-50°	851.9	11.3
50°-60°	1340.0	17.9
60°-70°	1928.9	25.7
70°-80°	1753.9	23.4
80°-90°	302.8	4.0
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°	7507.0	100.0
0°-180°	7507.0	100.0

Coefficient of Utilization

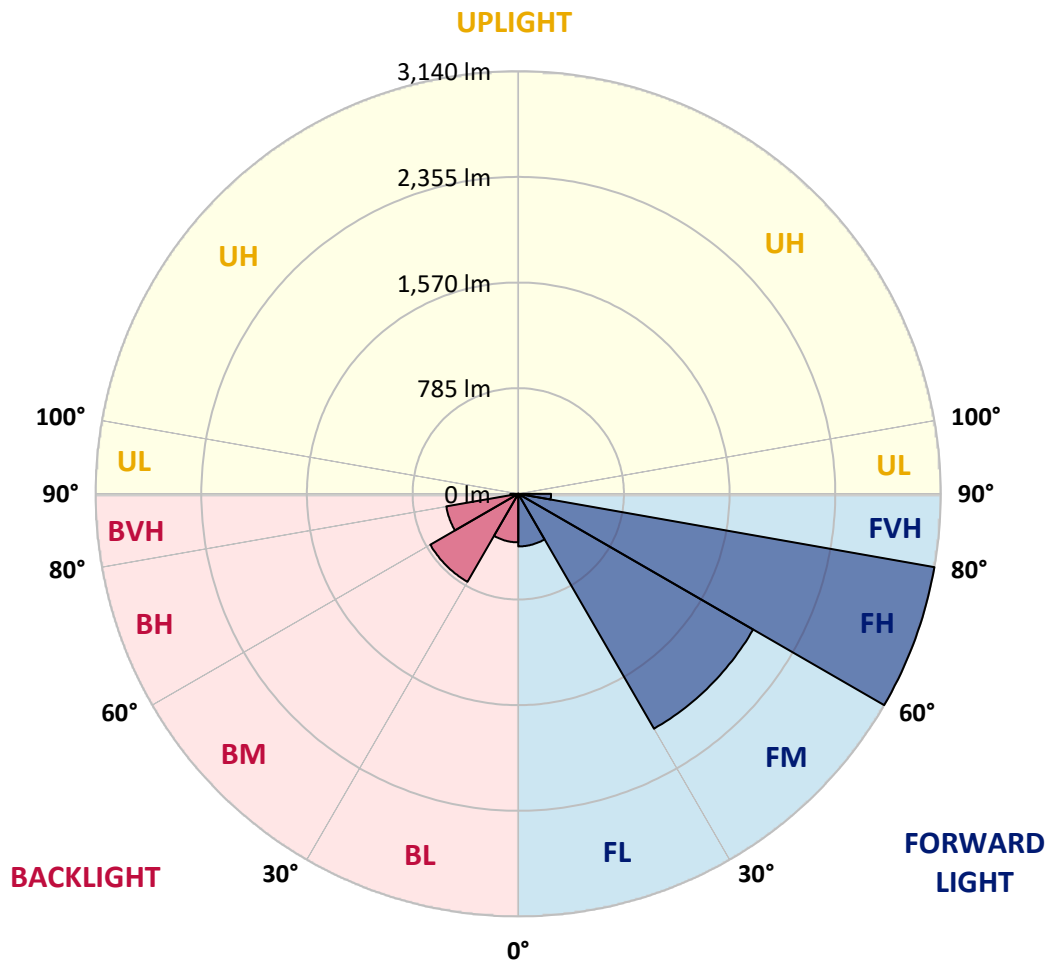


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	390.7	5.2			
FM (30°-60°)	2015.5	26.8			
FH (60°-80°)	3139.8	41.8			G2/5000
FVH (80°-90°)	243.7	3.2			G3/500
BL (0°-30°)	360.5	4.8	B1/500		
BM (30°-60°)	754.8	10.1	B1/1000		
BH (60°-80°)	543.0	7.2	B2/1000		G2/1000
BVH (80°-90°)	59.1	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-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	818.2	818.2	818.2	818.2	818.2	818.2	818.2	818.2	818.2	818.2	818.2
2.5°	836.6	836.6	838.5	834.8	834.8	825.6	825.6	823.8	820.1	818.2	814.6
5°	867.9	867.9	862.4	853.2	847.7	836.6	831.1	827.4	820.1	810.9	801.7
7.5°	901.0	897.3	893.6	878.9	867.9	847.7	838.5	833.0	818.2	805.4	799.9
10°	935.9	930.4	921.2	902.8	886.3	862.4	851.3	844.0	827.4	816.4	803.5
12.5°	956.2	956.2	945.1	923.1	901.0	871.6	866.1	856.9	840.3	825.6	812.7
15°	976.4	978.2	967.2	941.4	915.7	893.6	884.4	878.9	860.5	838.5	821.9
17.5°	996.6	994.8	983.7	954.3	926.7	906.5	901.0	893.6	875.2	855.0	838.5
20°	1011.3	1007.6	1004.0	967.2	939.6	926.7	919.4	913.9	895.5	873.4	851.3
22.5°	1015.0	1018.7	1015.0	970.9	948.8	934.1	932.2	926.7	912.0	891.8	869.7
25°	1016.8	1018.7	1024.2	981.9	961.7	950.6	947.0	943.3	932.2	915.7	886.3
27.5°	1026.0	1027.9	1027.9	989.3	978.2	970.9	967.2	967.2	961.7	941.4	912.0
30°	1027.9	1029.7	1033.4	1007.6	1004.0	998.4	1000.3	998.4	989.3	967.2	934.1
32.5°	1040.7	1042.6	1051.8	1018.7	1022.3	1027.9	1029.7	1027.9	1009.5	991.1	963.5
35°	1083.0	1081.2	1088.5	1046.3	1042.6	1044.4	1049.9	1048.1	1040.7	1024.2	1005.8
37.5°	1219.1	1219.1	1198.9	1110.6	1083.0	1079.3	1083.0	1092.2	1094.1	1079.3	1064.6
40°	1458.1	1445.3	1434.2	1243.0	1154.7	1132.7	1143.7	1149.2	1163.9	1163.9	1163.9
42.5°	1704.5	1706.4	1702.7	1448.9	1283.5	1228.3	1230.1	1243.0	1274.3	1279.8	1296.3
45°	1923.3	1936.2	1963.8	1688.0	1472.8	1349.6	1336.8	1349.6	1393.8	1430.6	1472.8
47.5°	2094.3	2079.6	2140.3	1938.0	1689.8	1515.1	1482.0	1485.7	1546.4	1605.2	1671.4
50°	2241.4	2245.1	2272.7	2193.6	1963.8	1702.7	1658.6	1651.2	1737.6	1800.1	1912.3
52.5°	2406.9	2395.9	2436.4	2418.0	2230.4	1932.5	1862.7	1840.6	1934.4	2022.6	2144.0
55°	2486.0	2497.0	2579.8	2625.7	2482.3	2138.5	2061.2	2068.6	2167.9	2261.7	2430.8
57.5°	2625.7	2636.8	2732.4	2828.0	2706.6	2357.3	2289.2	2289.2	2401.4	2506.2	2767.3
60°	2817.0	2818.8	2916.3	3081.8	2903.4	2568.7	2524.6	2522.8	2644.1	2765.5	3164.5
62.5°	2901.6	2923.6	3068.9	3284.0	3160.8	2828.0	2776.5	2791.2	2899.7	3041.3	3607.6
65°	2787.6	2835.4	3138.8	3420.1	3390.7	3098.3	3078.1	3098.3	3164.5	3317.1	4076.5
67.5°	2410.6	2475.0	3010.0	3512.0	3574.5	3410.9	3381.5	3377.8	3420.1	3591.1	4372.6
70°	2215.7	2254.3	2669.9	3547.0	3721.6	3727.2	3727.2	3703.3	3697.7	3822.8	4400.1
72.5°	1824.0	1864.5	2252.5	3352.1	3861.4	4150.1	4192.4	4104.1	3968.0	3942.3	3938.6
75°	1300.0	1329.4	1664.1	2636.8	3683.0	4556.4	4641.0	4470.0	4091.2	3681.2	2872.1
76°	906.5	948.8	1300.0	2252.5	3458.7	4563.8	4696.2	4497.6	4008.5	3456.9	2366.5
77.5°	459.7	474.4	752.1	1513.3	2894.2	4354.2	4482.9	4260.4	3648.1	2793.1	1502.3
80°	174.7	180.2	268.5	551.6	1588.7	3381.5	3431.1	3131.4	2414.3	1193.4	540.6
82.5°	91.9	95.6	150.8	272.1	652.8	1859.0	2098.0	1746.8	947.0	358.6	158.1
85°	46.0	49.6	88.3	165.5	323.6	581.0	673.0	636.2	314.4	136.1	58.8
87.5°	18.4	22.1	44.1	73.6	130.6	114.0	126.9	163.6	101.1	64.4	20.2
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°	818.2	818.2	818.2	818.2	818.2	818.2	818.2	818.2	818.2	818.2	818.2
2.5°	814.6	812.7	814.6	812.7	814.6	814.6	816.4	812.7	812.7	816.4	810.9
5°	801.7	799.9	801.7	805.4	807.2	810.9	818.2	816.4	820.1	823.8	825.6
7.5°	796.2	794.3	799.9	801.7	807.2	814.6	825.6	833.0	836.6	844.0	840.3
10°	801.7	801.7	809.1	814.6	823.8	833.0	842.1	849.5	858.7	864.2	862.4
12.5°	810.9	809.1	821.9	829.3	842.1	851.3	858.7	862.4	869.7	877.1	875.2
15°	820.1	821.9	840.3	855.0	869.7	873.4	875.2	871.6	875.2	878.9	878.9
17.5°	838.5	840.3	860.5	877.1	890.0	886.3	877.1	867.9	867.9	869.7	871.6
20°	853.2	856.9	880.8	895.5	902.8	888.1	873.4	862.4	856.9	858.7	856.9
22.5°	869.7	877.1	901.0	908.3	897.3	878.9	860.5	845.8	845.8	847.7	847.7
25°	890.0	893.6	910.2	906.5	886.3	858.7	844.0	838.5	836.6	838.5	840.3
27.5°	908.3	910.2	919.4	893.6	855.0	825.6	820.1	821.9	823.8	825.6	827.4
30°	932.2	935.9	926.7	875.2	816.4	783.3	783.3	794.3	798.0	803.5	801.7
32.5°	961.7	965.3	937.8	851.3	766.8	733.7	735.5	752.1	763.1	766.8	768.6
35°	1011.3	1004.0	945.1	818.2	713.4	673.0	674.8	695.0	709.8	715.3	711.6
37.5°	1072.0	1070.2	956.2	776.0	647.2	610.5	612.3	621.5	636.2	638.0	639.9
40°	1173.1	1158.4	974.5	720.8	581.0	546.1	542.4	547.9	546.1	549.8	551.6
42.5°	1318.4	1279.8	998.4	658.3	522.2	485.4	481.8	472.6	461.5	450.5	445.0
45°	1489.4	1428.7	1027.9	593.9	461.5	428.4	419.2	408.2	386.1	362.2	354.9
47.5°	1710.0	1594.2	1061.0	529.6	404.5	378.8	371.4	354.9	329.1	301.6	296.0
50°	1936.2	1789.1	1094.1	476.2	358.6	343.8	336.5	319.9	286.8	261.1	255.6
52.5°	2199.2	1982.2	1129.0	428.4	318.1	318.1	312.6	286.8	255.6	231.7	228.0
55°	2502.5	2180.8	1184.2	382.5	288.7	296.0	288.7	262.9	233.5	217.0	215.1
57.5°	2864.8	2432.7	1254.0	332.8	262.9	268.5	268.5	250.1	229.8	218.8	217.0
60°	3228.9	2688.3	1298.2	296.0	242.7	248.2	259.3	250.1	237.2	231.7	229.8
62.5°	3578.2	2949.4	1222.8	264.8	222.5	239.0	266.6	268.5	255.6	257.4	257.4
65°	3839.3	3147.9	989.3	237.2	209.6	244.6	288.7	290.5	268.5	262.9	261.1
67.5°	3929.4	3203.1	665.6	218.8	202.3	248.2	314.4	307.1	268.5	257.4	251.9
70°	3758.4	3000.8	432.1	202.3	191.2	244.6	334.7	316.3	266.6	250.1	242.7
72.5°	3151.6	2559.5	288.7	187.6	180.2	240.9	347.5	316.3	261.1	237.2	229.8
75°	2188.1	1748.7	215.1	169.2	163.6	235.4	351.2	310.7	248.2	222.5	217.0
76°	1756.0	1311.0	194.9	161.8	156.3	231.7	349.4	305.2	239.0	215.1	209.6
77.5°	1108.8	753.9	163.6	148.9	145.3	224.3	342.0	292.4	226.2	202.3	196.7
80°	388.0	275.8	125.0	121.4	123.2	207.8	321.8	266.6	200.4	178.4	171.0
82.5°	154.5	126.9	93.8	93.8	97.5	178.4	290.5	235.4	174.7	147.1	136.1
85°	60.7	55.2	66.2	66.2	69.9	145.3	242.7	183.9	119.5	91.9	88.3
87.5°	18.4	25.7	29.4	31.3	33.1	73.6	137.9	80.9	53.3	38.6	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

(END OF REPORT)