

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: P595130

Luminaire Tested: **IST-PA1C-735-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1C-735-U-T2U
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6230 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

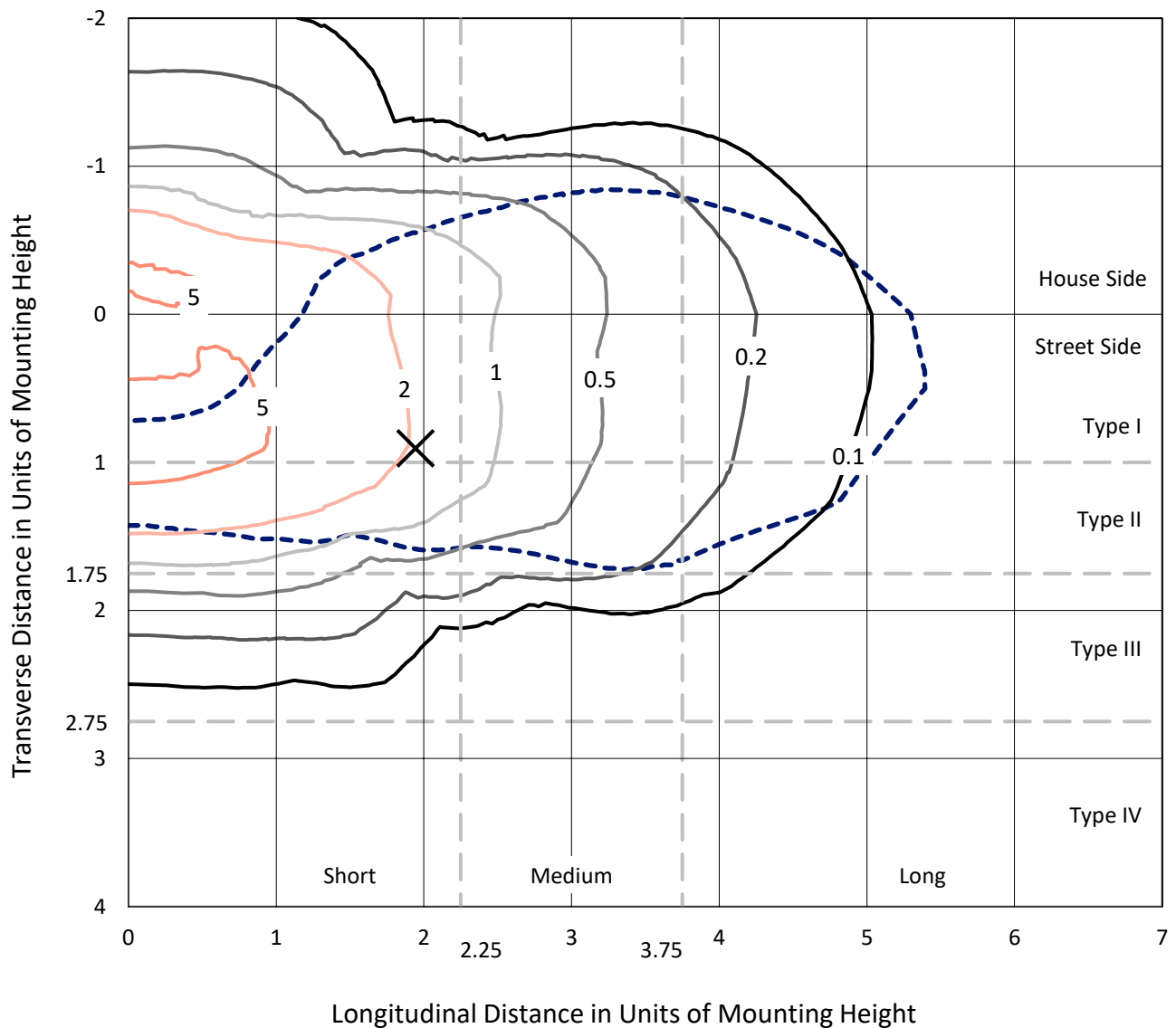
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

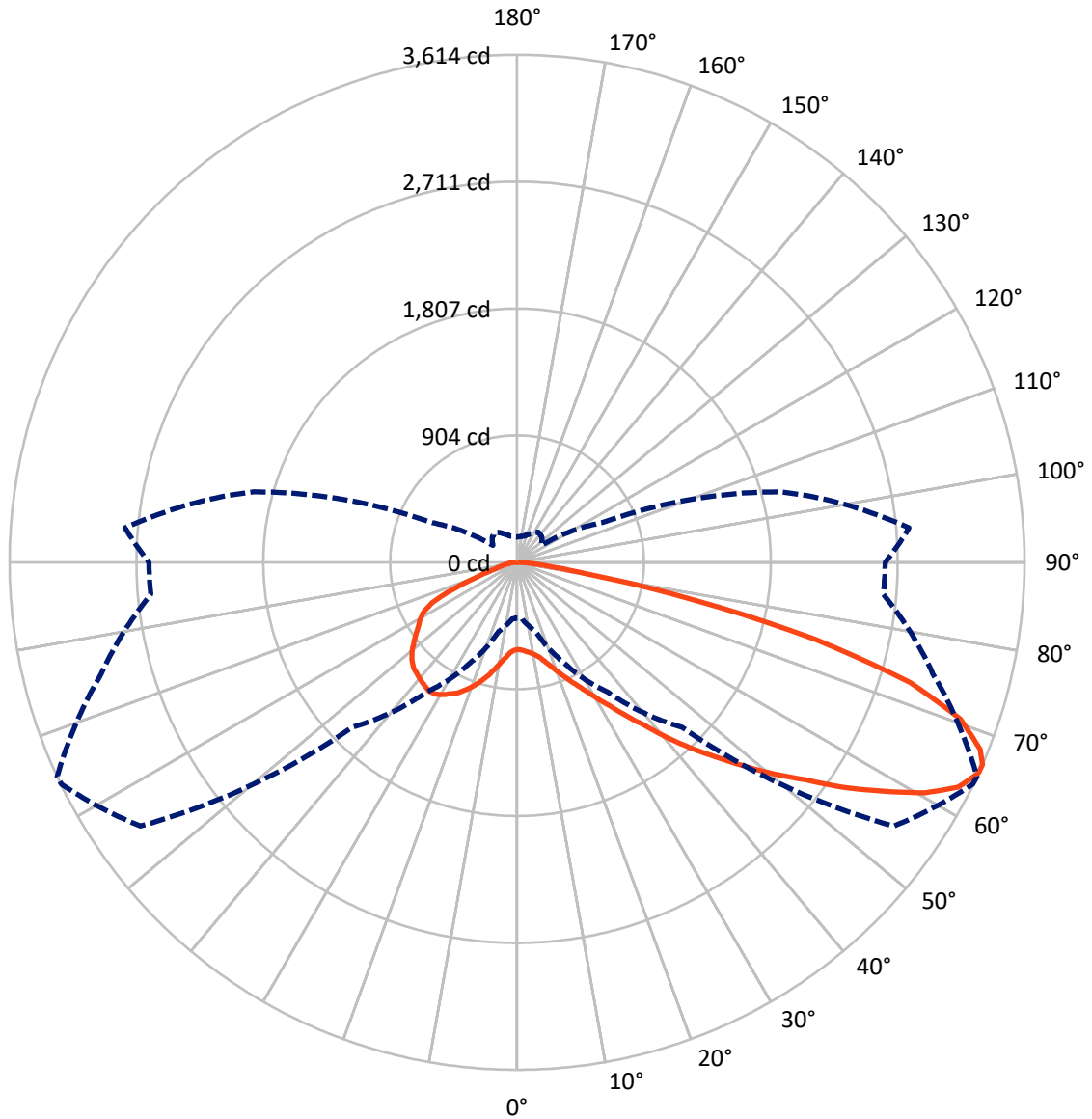
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1891.7	0.0	1891.7
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	4338.3	0.0	4338.3
	% Fixture	69.6	0.0	69.6
Total	Lumens	6230.0	0.0	6230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	1.0
10°-20°	220.8	3.5
20°-30°	432.4	6.9
30°-40°	706.6	11.3
40°-50°	1121.5	18.0
50°-60°	1442.5	23.2
60°-70°	1300.8	20.9
70°-80°	806.8	13.0
80°-90°	135.2	2.2
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°	6230.0	100.0
0°-180°	6230.0	100.0

Coefficient of Utilization



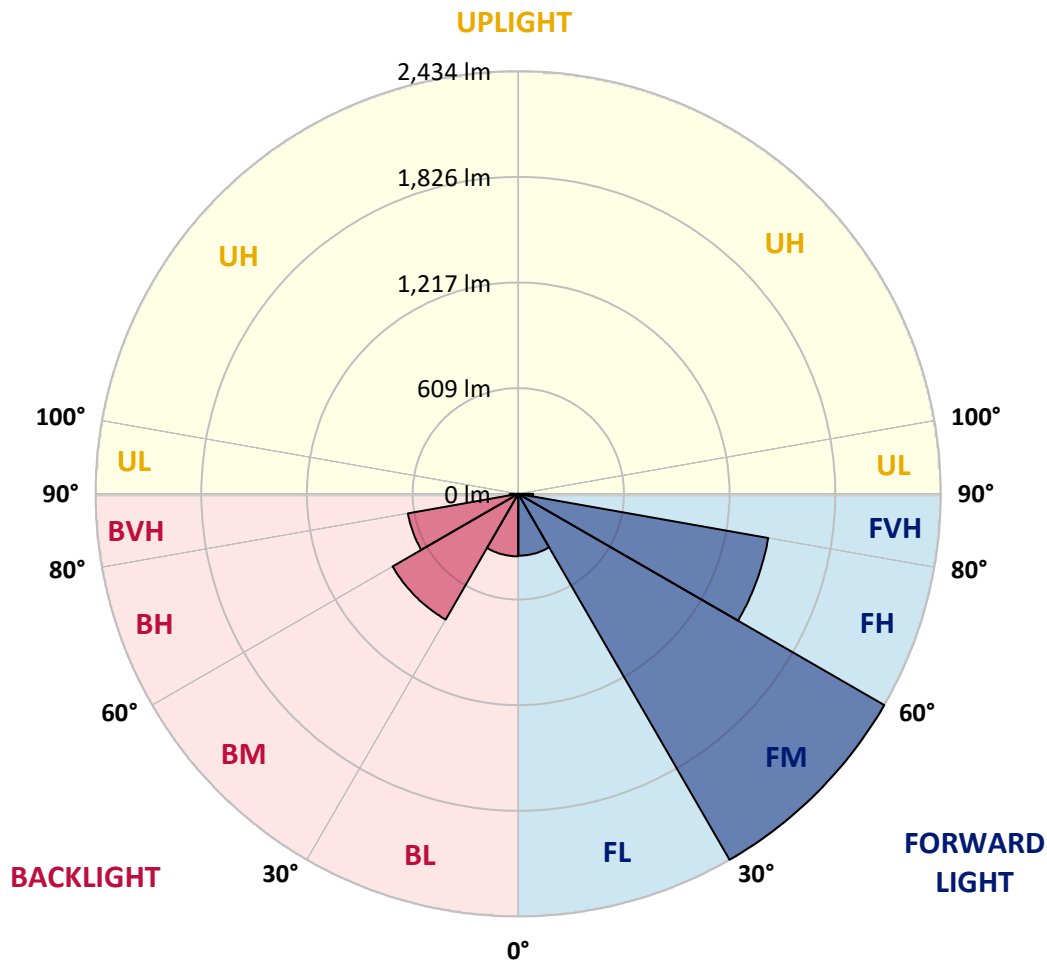
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	356.3	5.7			
FM (30°-60°)	2434.3	39.1			
FH (60°-80°)	1462.2	23.5			G1/1800
FVH (80°-90°)	85.5	1.4			G1/100
BL (0°-30°)	360.3	5.8	B1/500		
BM (30°-60°)	836.3	13.4	B1/1000		
BH (60°-80°)	645.5	10.4	B2/1000		G2/1000
BVH (80°-90°)	49.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
2.5°	622.5	624.0	625.5	622.5	625.5	627.0	624.0	624.0	625.5	622.5	622.5
5°	618.0	619.5	622.5	624.0	630.0	633.1	634.6	634.6	636.1	634.6	636.1
7.5°	605.9	605.9	611.9	614.9	624.0	634.6	640.6	649.7	649.7	651.2	655.7
10°	618.0	618.0	622.5	627.0	634.6	643.6	652.7	663.3	666.3	676.9	682.9
12.5°	636.1	639.1	645.2	651.2	660.3	670.8	678.4	689.0	690.5	701.1	713.1
15°	666.3	669.3	672.4	679.9	692.0	705.6	719.2	726.7	729.8	735.8	744.9
17.5°	711.6	714.7	716.2	720.7	729.8	747.9	767.5	773.6	776.6	776.6	784.2
20°	788.7	787.2	784.2	775.1	775.1	791.7	818.9	829.5	832.5	826.5	821.9
22.5°	877.8	876.3	864.2	853.7	846.1	849.1	876.3	894.5	892.9	880.9	862.7
25°	994.2	997.2	977.6	950.4	927.7	921.7	938.3	956.4	959.4	936.8	906.5
27.5°	1133.2	1128.6	1118.1	1074.3	1030.4	1003.2	1012.3	1031.9	1033.5	1009.3	960.9
30°	1296.4	1288.8	1261.6	1216.3	1148.3	1110.5	1103.0	1119.6	1124.1	1083.3	1013.8
32.5°	1477.7	1470.1	1435.4	1365.9	1291.8	1228.4	1204.2	1226.9	1223.8	1177.0	1080.3
35°	1696.7	1695.2	1631.8	1545.7	1452.0	1367.4	1334.1	1334.1	1343.2	1273.7	1164.9
37.5°	1989.9	2002.0	1908.3	1773.8	1642.4	1529.0	1473.1	1470.1	1471.6	1396.1	1260.1
40°	2254.3	2249.7	2195.3	2069.9	1878.1	1733.0	1649.9	1631.8	1636.3	1539.6	1384.0
42.5°	2406.9	2411.4	2397.8	2343.4	2175.7	1992.9	1850.9	1802.5	1804.0	1683.2	1501.8
45°	2502.1	2506.6	2505.1	2532.3	2465.8	2293.6	2091.1	1979.3	1973.2	1846.3	1640.8
47.5°	2556.5	2559.5	2579.1	2635.0	2689.4	2650.1	2357.0	2175.7	2163.6	1998.9	1779.8
50°	2496.0	2497.5	2576.1	2709.1	2842.0	2961.4	2629.0	2370.6	2367.6	2168.2	1915.8
52.5°	2178.7	2205.9	2379.7	2657.7	2955.3	3182.0	2943.2	2600.3	2574.6	2328.3	2051.8
55°	1778.3	1790.4	1989.9	2343.4	2934.2	3318.0	3180.5	2848.1	2829.9	2506.6	2184.8
57.5°	1388.5	1400.6	1637.8	1932.4	2610.8	3310.4	3348.2	3115.5	3074.7	2662.2	2317.7
60°	896.0	933.7	1208.7	1571.3	2113.8	3080.7	3432.8	3372.3	3334.6	2816.3	2431.0
62.5°	608.9	614.9	787.2	1164.9	1581.9	2503.6	3426.7	3531.0	3524.9	2970.4	2544.4
65°	395.9	404.9	509.2	788.7	1131.7	1662.0	3275.6	3608.0	3614.1	3065.6	2618.4
66°	335.4	341.5	421.5	663.3	991.2	1317.5	3142.7	3602.0	3614.1	3109.4	2641.1
67.5°	291.6	296.1	336.9	489.5	809.8	947.3	2796.7	3521.9	3556.7	3150.2	2669.8
70°	250.8	256.9	294.6	333.9	578.7	553.0	1770.8	3316.4	3351.2	3169.9	2687.9
72.5°	207.0	211.5	249.3	302.2	420.0	371.7	781.1	2839.0	2926.6	3097.4	2659.2
75°	163.2	166.2	201.0	252.3	321.8	290.1	340.0	2082.0	2192.3	2730.2	2547.4
77.5°	126.9	128.4	155.6	196.4	294.6	225.1	210.0	1013.8	1282.8	2109.2	2243.7
80°	87.6	90.7	114.8	148.1	216.1	178.3	140.5	395.9	503.1	1400.6	1701.3
82.5°	57.4	58.9	78.6	111.8	143.5	170.7	92.2	191.9	211.5	645.2	737.3
85°	39.3	39.3	55.9	69.5	98.2	113.3	60.4	101.2	110.3	244.8	89.1
87.5°	19.6	19.6	27.2	36.3	46.8	43.8	36.3	36.3	36.3	80.1	25.7
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°	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0	621.0
2.5°	624.0	624.0	625.5	627.0	628.5	628.5	630.0	630.0	628.5	630.0	631.6
5°	637.6	639.1	642.1	646.7	654.2	661.8	669.3	673.9	678.4	679.9	676.9
7.5°	658.8	661.8	672.4	684.4	696.5	714.7	725.2	731.3	734.3	737.3	734.3
10°	686.0	692.0	707.1	728.3	749.4	772.1	784.2	793.2	794.7	797.8	794.7
12.5°	717.7	728.3	750.9	781.1	806.8	829.5	838.6	832.5	818.9	812.9	811.4
15°	755.5	766.0	797.8	835.5	865.7	876.3	862.7	843.1	828.0	826.5	825.0
17.5°	788.7	803.8	847.6	886.9	915.6	905.0	868.8	856.7	852.2	858.2	856.7
20°	831.0	843.1	886.9	935.3	950.4	909.6	883.9	876.3	871.8	871.8	868.8
22.5°	865.7	874.8	927.7	980.6	971.5	912.6	894.5	879.3	864.2	862.7	858.2
25°	906.5	909.6	965.5	1022.9	974.5	915.6	883.9	858.2	843.1	838.6	840.1
27.5°	944.3	951.9	1000.2	1051.6	967.0	899.0	847.6	814.4	791.7	790.2	790.2
30°	992.7	992.7	1036.5	1083.3	950.4	856.7	788.7	740.3	722.2	720.7	717.7
32.5°	1047.1	1038.0	1080.3	1106.0	914.1	799.3	708.6	654.2	625.5	619.5	614.9
35°	1122.6	1103.0	1133.2	1110.5	877.8	717.7	607.4	545.4	524.3	515.2	515.2
37.5°	1210.2	1181.5	1213.3	1096.9	821.9	622.5	501.6	454.8	432.1	418.5	423.1
40°	1313.0	1276.7	1294.8	1081.8	761.5	516.7	414.0	385.3	358.1	340.0	340.0
42.5°	1433.9	1373.4	1387.0	1066.7	675.4	424.6	358.1	338.4	317.3	299.2	303.7
45°	1550.2	1491.3	1477.7	1051.6	584.7	362.6	335.4	321.8	302.2	281.0	281.0
47.5°	1684.7	1609.1	1557.7	1024.4	495.6	343.0	341.5	321.8	284.1	253.8	250.8
50°	1811.6	1742.1	1630.3	983.6	445.7	359.6	340.0	293.1	256.9	237.2	235.7
52.5°	1946.0	1873.5	1689.2	933.7	420.0	352.0	312.8	268.9	241.7	222.1	217.6
55°	2079.0	2041.2	1742.1	885.4	379.2	327.9	290.1	253.8	225.1	207.0	204.0
57.5°	2230.1	2215.0	1787.4	837.0	315.8	297.6	273.5	243.3	216.1	202.5	201.0
60°	2361.5	2414.4	1841.8	800.8	268.9	275.0	265.9	241.7	222.1	207.0	207.0
62.5°	2500.6	2606.3	1890.1	753.9	234.2	261.4	267.4	240.2	214.5	201.0	201.0
65°	2621.4	2802.7	1940.0	667.8	210.0	250.8	262.9	223.6	193.4	182.8	179.8
66°	2672.8	2858.6	1955.1	614.9	201.0	243.3	255.3	214.5	184.3	175.3	173.8
67.5°	2733.2	2946.3	1973.2	501.6	187.4	226.6	238.7	201.0	169.2	163.2	160.2
70°	2817.8	2964.4	1962.7	327.9	163.2	194.9	213.0	179.8	151.1	146.6	142.0
72.5°	2826.9	2840.5	1856.9	207.0	142.0	167.7	187.4	161.7	133.0	128.4	125.4
75°	2677.3	2517.2	1571.3	148.1	125.4	148.1	164.7	140.5	110.3	104.3	101.2
77.5°	2286.0	1997.4	1130.2	110.3	108.8	126.9	137.5	122.4	92.2	87.6	86.1
80°	1604.6	1355.3	566.6	83.1	86.1	105.8	114.8	102.7	77.1	71.0	68.0
82.5°	649.7	575.7	194.9	61.9	65.0	80.1	98.2	84.6	58.9	51.4	45.3
85°	74.0	125.4	84.6	42.3	43.8	54.4	66.5	51.4	34.8	28.7	24.2
87.5°	15.1	27.2	30.2	16.6	15.1	21.2	30.2	18.1	12.1	4.5	6.0
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)