

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: P595332

Luminaire Tested: **IST-PA1E-827-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595332
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-PA1E-827-U-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7463 lumens
Efficiency: N/A
Efficacy: 91.6 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

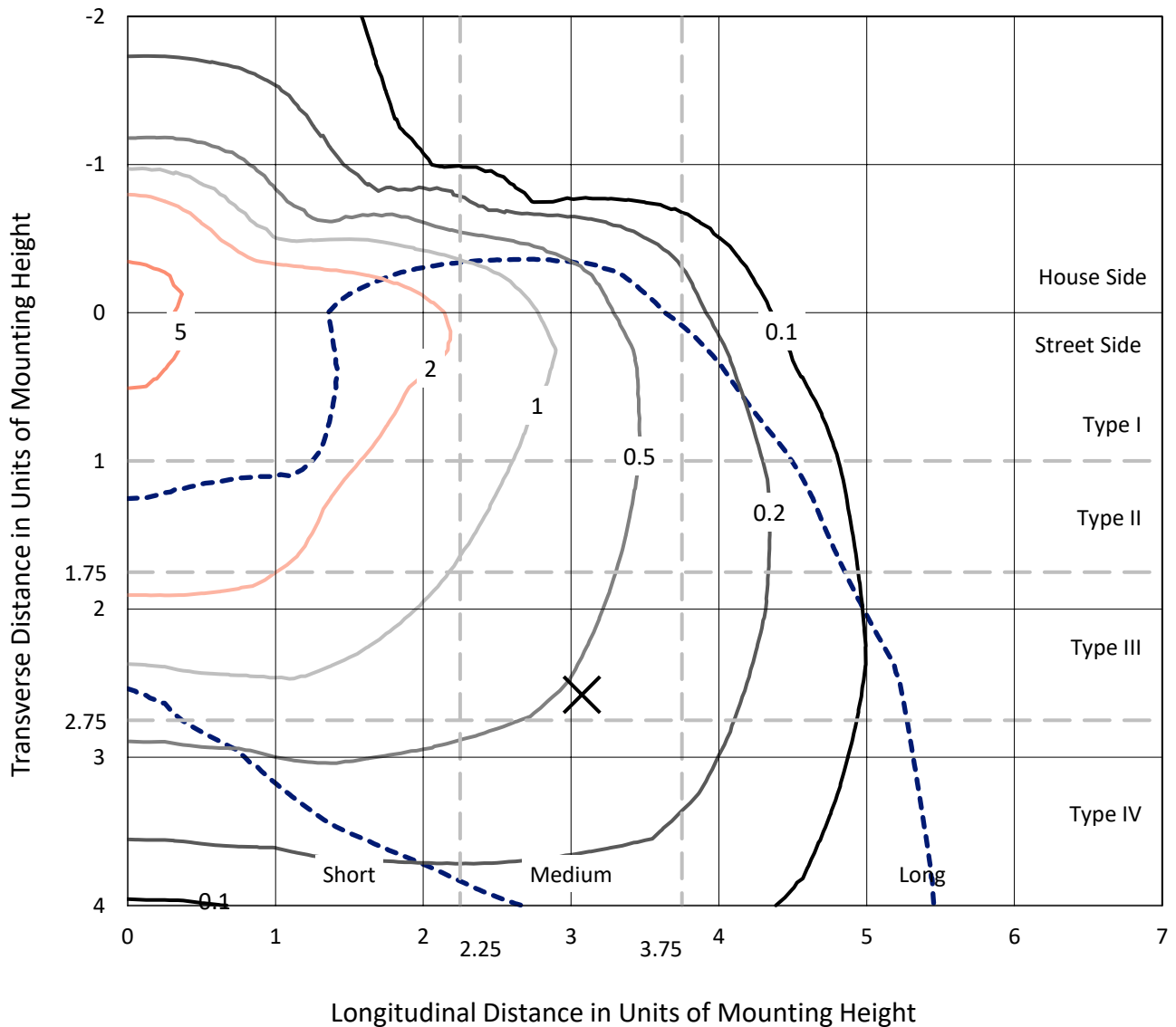
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

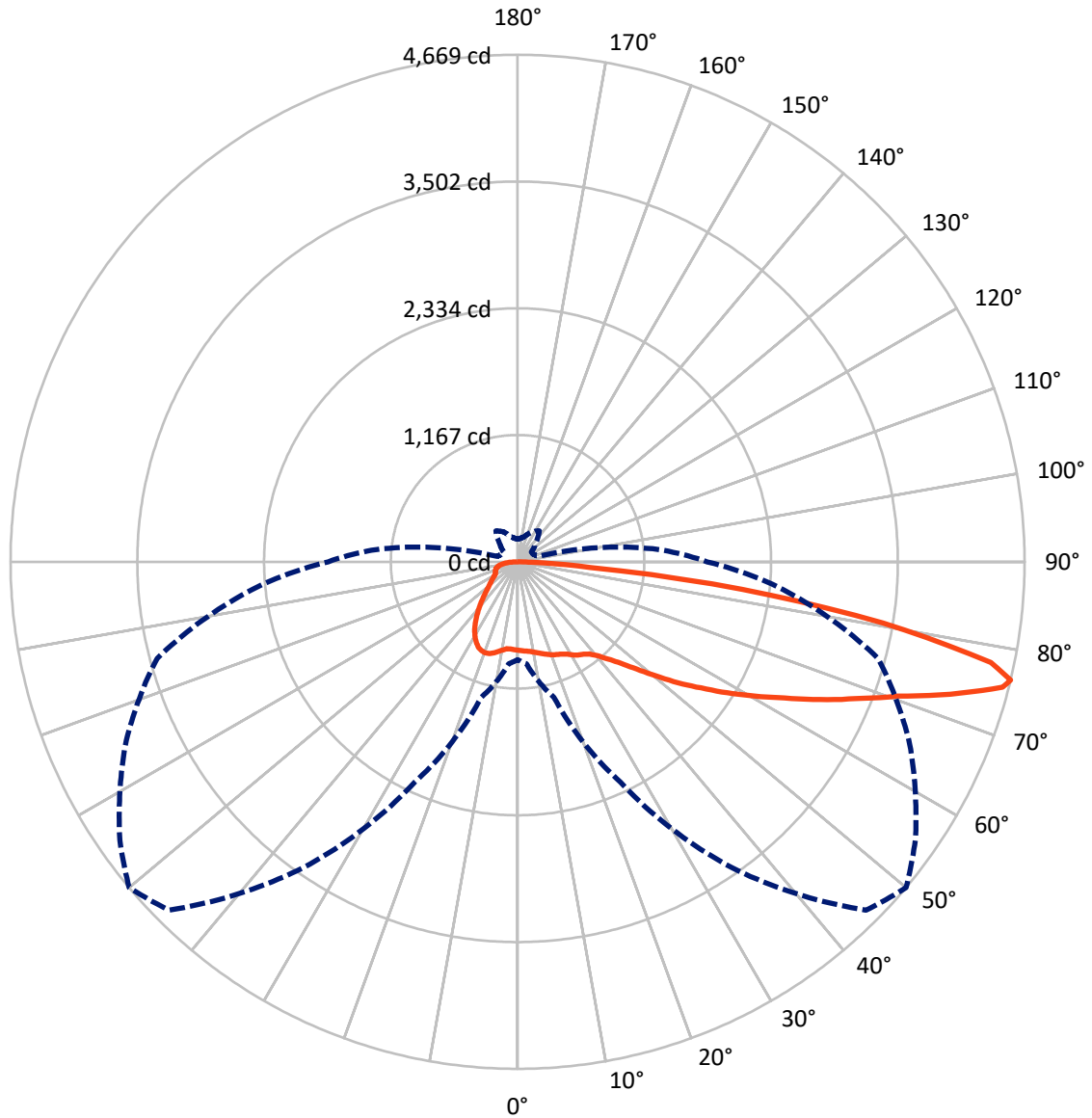
× Max cd
 - - - 1/2 Max cd



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	1707.2	0.0	1707.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	5755.8	0.0	5755.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	7463.0	0.0	7463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	1.1
10°-20°	248.3	3.3
20°-30°	419.5	5.6
30°-40°	575.0	7.7
40°-50°	846.9	11.3
50°-60°	1332.2	17.9
60°-70°	1917.5	25.7
70°-80°	1743.6	23.4
80°-90°	301.0	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°	7463.0	100.0
0°-180°	7463.0	100.0

Coefficient of Utilization

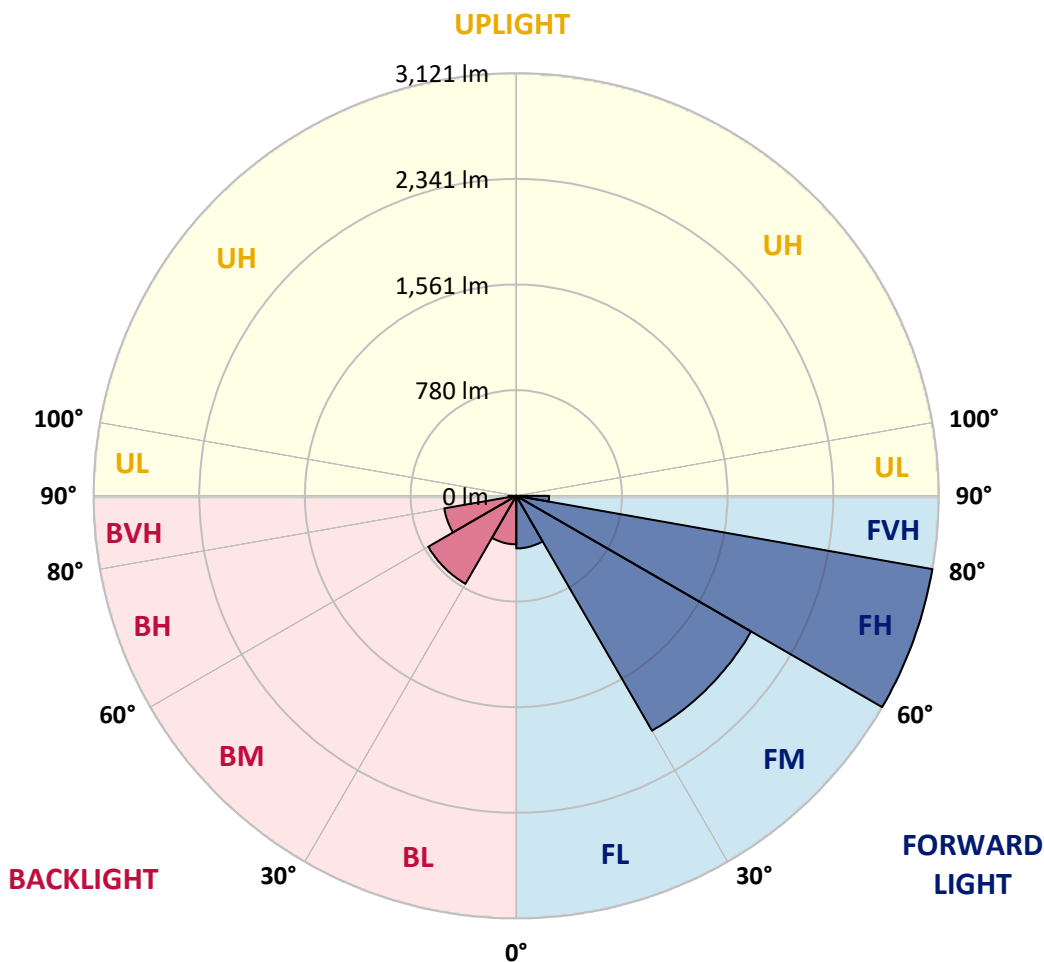


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	388.4	5.2			
FM (30°-60°)	2003.7	26.8			
FH (60°-80°)	3121.4	41.8			G2/5000
FVH (80°-90°)	242.3	3.2			G3/500
BL (0°-30°)	358.4	4.8	B1/500		
BM (30°-60°)	750.4	10.1	B1/1000		
BH (60°-80°)	539.8	7.2	B2/1000		G2/1000
BVH (80°-90°)	58.7	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-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	813.5	813.5	813.5	813.5	813.5	813.5	813.5	813.5	813.5	813.5	813.5
2.5°	831.7	831.7	833.6	829.9	829.9	820.8	820.8	818.9	815.3	813.5	809.8
5°	862.8	862.8	857.3	848.2	842.7	831.7	826.2	822.6	815.3	806.1	797.0
7.5°	895.7	892.1	888.4	873.8	862.8	842.7	833.6	828.1	813.5	800.7	795.2
10°	930.4	925.0	915.8	897.5	881.1	857.3	846.4	839.0	822.6	811.6	798.8
12.5°	950.5	950.5	939.6	917.6	895.7	866.5	861.0	851.8	835.4	820.8	808.0
15°	970.7	972.5	961.5	935.9	910.3	888.4	879.3	873.8	855.5	833.6	817.1
17.5°	990.8	988.9	978.0	948.7	921.3	901.2	895.7	888.4	870.1	850.0	833.6
20°	1005.4	1001.7	998.1	961.5	934.1	921.3	914.0	908.5	890.2	868.3	846.4
22.5°	1009.0	1012.7	1009.0	965.2	943.2	928.6	926.8	921.3	906.7	886.6	864.6
25°	1010.9	1012.7	1018.2	976.1	956.0	945.1	941.4	937.8	926.8	910.3	881.1
27.5°	1020.0	1021.8	1021.8	983.5	972.5	965.2	961.5	961.5	956.0	935.9	906.7
30°	1021.8	1023.7	1027.3	1001.7	998.1	992.6	994.4	992.6	983.5	961.5	928.6
32.5°	1034.6	1036.5	1045.6	1012.7	1016.4	1021.8	1023.7	1021.8	1003.6	985.3	957.9
35°	1076.7	1074.9	1082.2	1040.1	1036.5	1038.3	1043.8	1041.9	1034.6	1018.2	999.9
37.5°	1211.9	1211.9	1191.8	1104.1	1076.7	1073.0	1076.7	1085.8	1087.6	1073.0	1058.4
40°	1449.6	1436.8	1425.8	1235.7	1148.0	1126.0	1137.0	1142.5	1157.1	1157.1	1157.1
42.5°	1694.5	1696.4	1692.7	1440.4	1275.9	1221.1	1222.9	1235.7	1266.8	1272.3	1288.7
45°	1912.1	1924.9	1952.3	1678.1	1464.2	1341.7	1328.9	1341.7	1385.6	1422.2	1464.2
47.5°	2082.1	2067.4	2127.8	1926.7	1679.9	1506.3	1473.3	1477.0	1537.3	1595.8	1661.6
50°	2228.3	2232.0	2259.4	2180.8	1952.3	1692.7	1648.8	1641.5	1727.4	1789.6	1901.1
52.5°	2392.8	2381.9	2422.1	2403.8	2217.3	1921.2	1851.7	1829.8	1923.0	2010.8	2131.4
55°	2471.4	2482.4	2564.7	2610.4	2467.8	2125.9	2049.2	2056.5	2155.2	2248.4	2416.6
57.5°	2610.4	2621.3	2716.4	2811.4	2690.8	2343.5	2275.8	2275.8	2387.3	2491.5	2751.1
60°	2800.5	2802.3	2899.2	3063.7	2886.4	2553.7	2509.8	2508.0	2628.6	2749.3	3145.9
62.5°	2884.5	2906.5	3050.9	3264.8	3142.3	2811.4	2760.2	2774.9	2882.7	3023.5	3586.5
65°	2771.2	2818.7	3120.4	3400.0	3370.8	3080.1	3060.0	3080.1	3145.9	3297.7	4052.6
67.5°	2396.5	2460.5	2992.4	3491.4	3553.6	3390.9	3361.7	3358.0	3400.0	3570.0	4346.9
70°	2202.7	2241.1	2654.2	3526.2	3699.8	3705.3	3705.3	3681.5	3676.1	3800.4	4374.4
72.5°	1813.4	1853.6	2239.3	3332.4	3838.8	4125.7	4167.8	4080.0	3944.8	3919.2	3915.5
75°	1292.4	1321.6	1654.3	2621.3	3661.4	4529.7	4613.8	4443.8	4067.3	3659.6	2855.3
76°	901.2	943.2	1292.4	2239.3	3438.4	4537.0	4668.7	4471.2	3985.0	3436.6	2352.6
77.5°	457.0	471.6	747.6	1504.4	2877.2	4328.7	4456.6	4235.4	3626.7	2776.7	1493.5
80°	173.7	179.1	266.9	548.4	1579.4	3361.7	3411.0	3113.0	2400.1	1186.4	537.4
82.5°	91.4	95.1	149.9	270.5	648.9	1848.1	2085.7	1736.6	941.4	356.5	157.2
85°	45.7	49.4	87.7	164.5	321.7	577.6	669.0	632.5	312.6	135.3	58.5
87.5°	18.3	21.9	43.9	73.1	129.8	113.3	126.1	162.7	100.5	64.0	20.1
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°	813.5	813.5	813.5	813.5	813.5	813.5	813.5	813.5	813.5	813.5	813.5
2.5°	809.8	808.0	809.8	808.0	809.8	809.8	811.6	808.0	808.0	811.6	806.1
5°	797.0	795.2	797.0	800.7	802.5	806.1	813.5	811.6	815.3	818.9	820.8
7.5°	791.5	789.7	795.2	797.0	802.5	809.8	820.8	828.1	831.7	839.0	835.4
10°	797.0	797.0	804.3	809.8	818.9	828.1	837.2	844.5	853.7	859.1	857.3
12.5°	806.1	804.3	817.1	824.4	837.2	846.4	853.7	857.3	864.6	871.9	870.1
15°	815.3	817.1	835.4	850.0	864.6	868.3	870.1	866.5	870.1	873.8	873.8
17.5°	833.6	835.4	855.5	871.9	884.7	881.1	871.9	862.8	862.8	864.6	866.5
20°	848.2	851.8	875.6	890.2	897.5	882.9	868.3	857.3	851.8	853.7	851.8
22.5°	864.6	871.9	895.7	903.0	892.1	873.8	855.5	840.9	840.9	842.7	842.7
25°	884.7	888.4	904.8	901.2	881.1	853.7	839.0	833.6	831.7	833.6	835.4
27.5°	903.0	904.8	914.0	888.4	850.0	820.8	815.3	817.1	818.9	820.8	822.6
30°	926.8	930.4	921.3	870.1	811.6	778.7	778.7	789.7	793.3	798.8	797.0
32.5°	956.0	959.7	932.3	846.4	762.3	729.4	731.2	747.6	758.6	762.3	764.1
35°	1005.4	998.1	939.6	813.5	709.3	669.0	670.9	691.0	705.6	711.1	707.4
37.5°	1065.7	1063.9	950.5	771.4	643.4	606.9	608.7	617.9	632.5	634.3	636.1
40°	1166.2	1151.6	968.8	716.6	577.6	542.9	539.3	544.7	542.9	546.6	548.4
42.5°	1310.7	1272.3	992.6	654.4	519.1	482.6	478.9	469.8	458.8	447.9	442.4
45°	1480.7	1420.3	1021.8	590.4	458.8	425.9	416.8	405.8	383.9	360.1	352.8
47.5°	1700.0	1584.9	1054.7	526.5	402.2	376.6	369.3	352.8	327.2	299.8	294.3
50°	1924.9	1778.6	1087.6	473.4	356.5	341.8	334.5	318.1	285.2	259.6	254.1
52.5°	2186.3	1970.6	1122.4	425.9	316.2	316.2	310.8	285.2	254.1	230.3	226.7
55°	2487.9	2168.0	1177.2	380.2	287.0	294.3	287.0	261.4	232.2	215.7	213.9
57.5°	2848.0	2418.4	1246.7	330.9	261.4	266.9	266.9	248.6	228.5	217.5	215.7
60°	3209.9	2672.5	1290.6	294.3	241.3	246.8	257.7	248.6	235.8	230.3	228.5
62.5°	3557.2	2932.1	1215.6	263.2	221.2	237.6	265.1	266.9	254.1	255.9	255.9
65°	3816.8	3129.5	983.5	235.8	208.4	243.1	287.0	288.8	266.9	261.4	259.6
67.5°	3906.4	3184.3	661.7	217.5	201.1	246.8	312.6	305.3	266.9	255.9	250.4
70°	3736.4	2983.3	429.6	201.1	190.1	243.1	332.7	314.4	265.1	248.6	241.3
72.5°	3133.2	2544.5	287.0	186.5	179.1	239.5	345.5	314.4	259.6	235.8	228.5
75°	2175.3	1738.4	213.9	168.2	162.7	234.0	349.1	308.9	246.8	221.2	215.7
76°	1745.7	1303.3	193.8	160.9	155.4	230.3	347.3	303.4	237.6	213.9	208.4
77.5°	1102.3	749.5	162.7	148.1	144.4	223.0	340.0	290.6	224.8	201.1	195.6
80°	385.7	274.2	124.3	120.6	122.5	206.6	319.9	265.1	199.2	177.3	170.0
82.5°	153.6	126.1	93.2	93.2	96.9	177.3	288.8	234.0	173.7	146.2	135.3
85°	60.3	54.8	65.8	65.8	69.5	144.4	241.3	182.8	118.8	91.4	87.7
87.5°	18.3	25.6	29.2	31.1	32.9	73.1	137.1	80.4	53.0	38.4	31.1
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)