

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: P595211

Luminaire Tested: **IST-PA1D-735-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595211
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-PA1D-735-U-T2U
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7754 lumens
Efficiency: N/A
Efficacy: 124.3 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

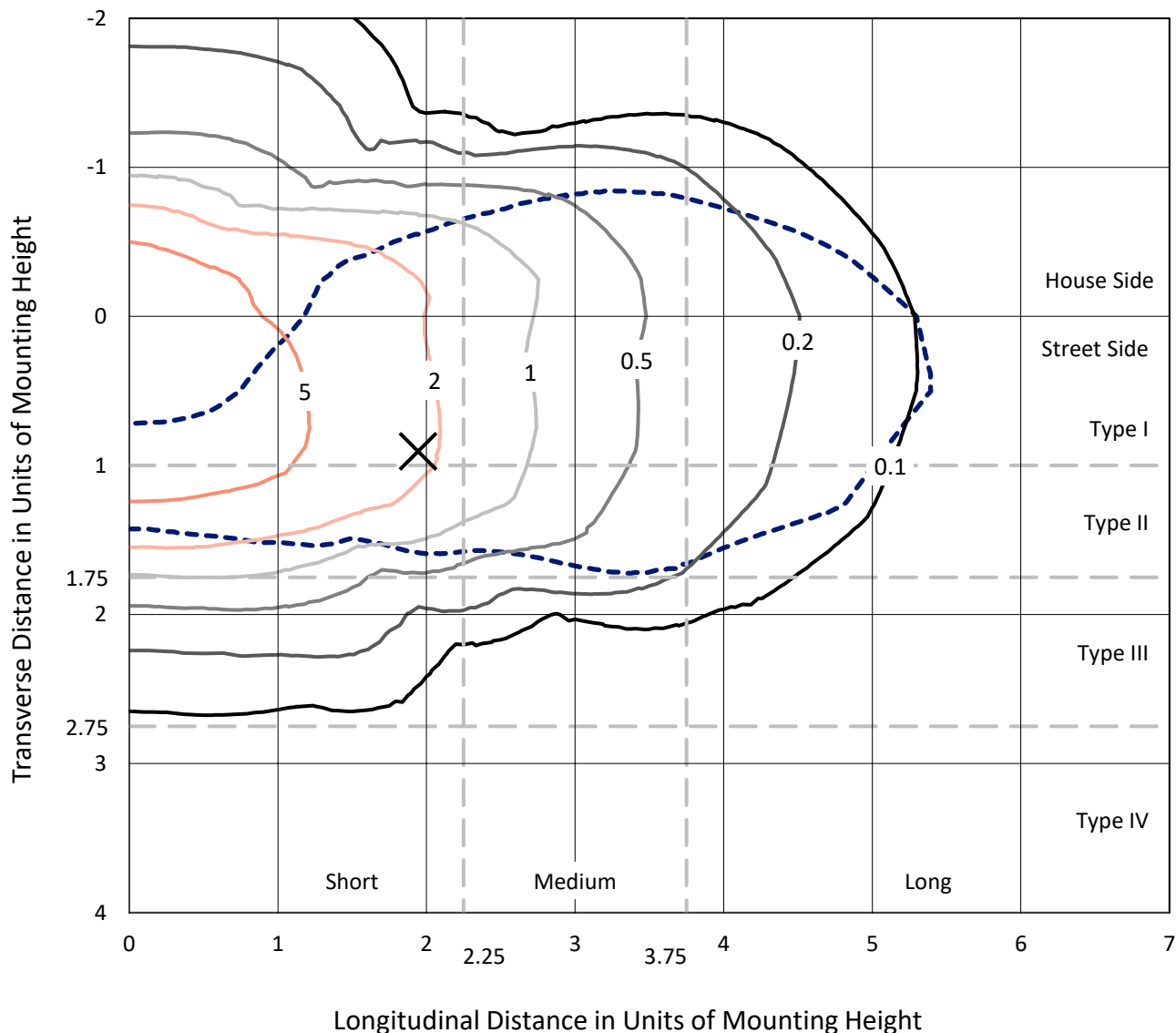
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

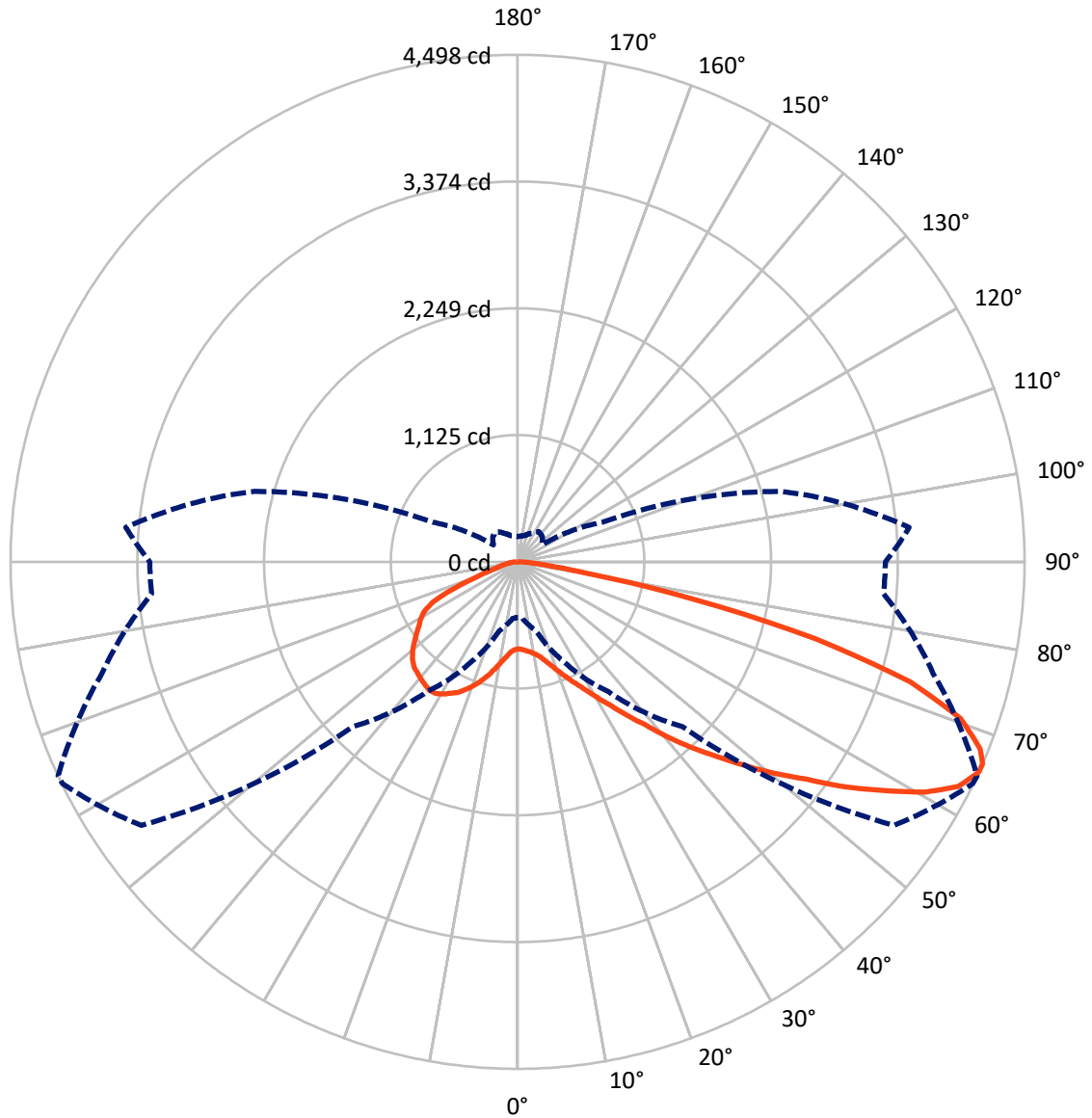
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.6 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	2354.4	0.0	2354.4
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	5399.6	0.0	5399.6
	% Fixture	69.6	0.0	69.6
Total	Lumens	7754.0	0.0	7754.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	1.0
10°-20°	274.8	3.5
20°-30°	538.2	6.9
30°-40°	879.4	11.3
40°-50°	1395.9	18.0
50°-60°	1795.3	23.2
60°-70°	1619.0	20.9
70°-80°	1004.2	13.0
80°-90°	168.2	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°	7754.0	100.0
0°-180°	7754.0	100.0

Coefficient of Utilization



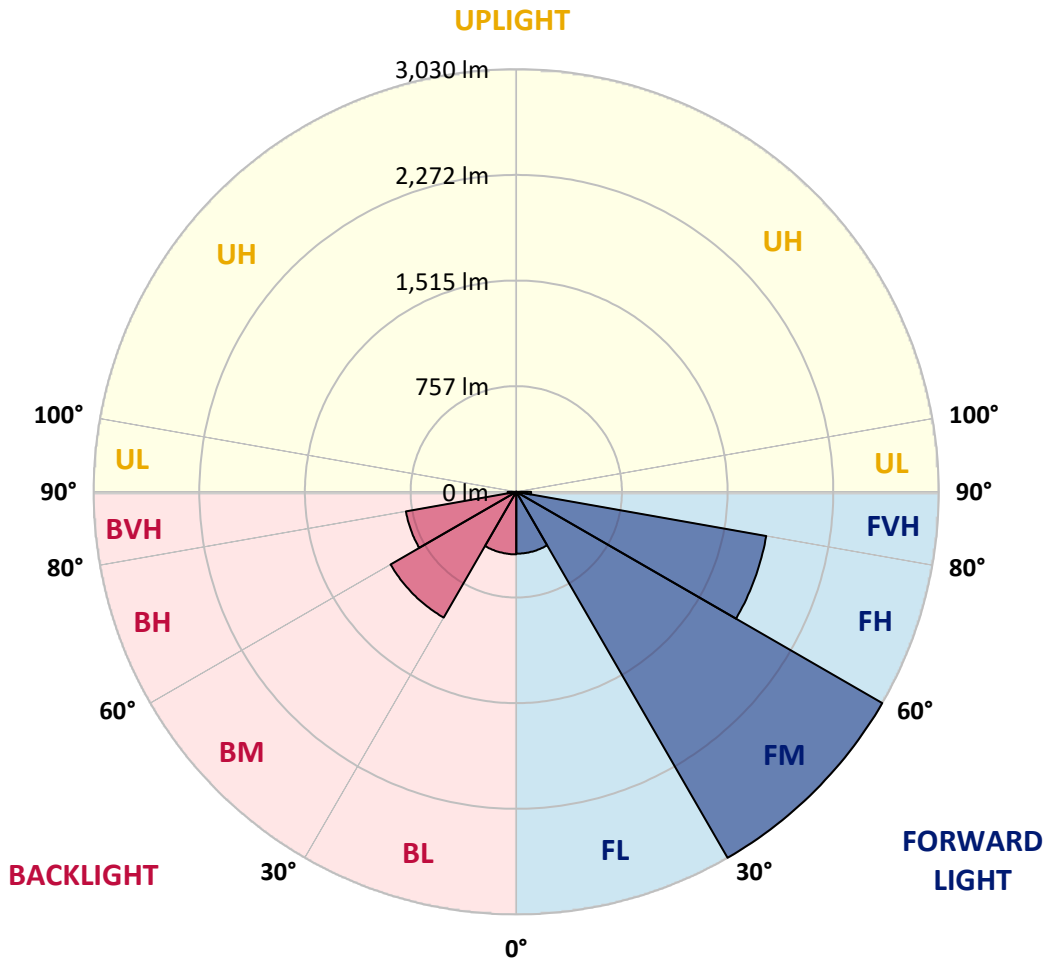
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.4	5.7			
FM (30°-60°)	3029.8	39.1			
FH (60°-80°)	1819.9	23.5			G2/5000
FVH (80°-90°)	106.4	1.4			G2/225
BL (0°-30°)	448.4	5.8	B1/500		
BM (30°-60°)	1040.8	13.4	B2/2500		
BH (60°-80°)	803.3	10.4	B2/1000		G2/1000
BVH (80°-90°)	61.8	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°	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9
2.5°	774.8	776.7	778.5	774.8	778.5	780.4	776.7	776.7	778.5	774.8	774.8
5°	769.1	771.0	774.8	776.7	784.2	787.9	789.8	789.8	791.7	789.8	791.7
7.5°	754.1	754.1	761.6	765.4	776.7	789.8	797.3	808.6	808.6	810.5	816.1
10°	769.1	769.1	774.8	780.4	789.8	801.1	812.4	825.5	829.3	842.5	850.0
12.5°	791.7	795.5	803.0	810.5	821.8	834.9	844.3	857.5	859.4	872.6	887.6
15°	829.3	833.1	836.8	846.2	861.3	878.2	895.1	904.5	908.3	915.8	927.1
17.5°	885.7	889.5	891.4	897.0	908.3	930.9	955.3	962.8	966.6	966.6	976.0
20°	981.6	979.7	976.0	964.7	964.7	985.4	1019.2	1032.4	1036.2	1028.6	1023.0
22.5°	1092.6	1090.7	1075.7	1062.5	1053.1	1056.8	1090.7	1113.3	1111.4	1096.3	1073.8
25°	1237.4	1241.1	1216.7	1182.8	1154.6	1147.1	1167.8	1190.4	1194.1	1165.9	1128.3
27.5°	1410.4	1404.7	1391.6	1337.0	1282.5	1248.7	1259.9	1284.4	1286.3	1256.2	1196.0
30°	1613.5	1604.1	1570.2	1513.8	1429.2	1382.2	1372.8	1393.5	1399.1	1348.3	1261.8
32.5°	1839.1	1829.7	1786.5	1700.0	1607.8	1528.9	1498.8	1527.0	1523.2	1464.9	1344.6
35°	2111.8	2109.9	2030.9	1923.8	1807.2	1701.9	1660.5	1660.5	1671.8	1585.3	1449.9
37.5°	2476.6	2491.7	2375.1	2207.7	2044.1	1903.1	1833.5	1829.7	1831.6	1737.6	1568.3
40°	2805.7	2800.1	2732.4	2576.3	2337.5	2156.9	2053.5	2030.9	2036.6	1916.2	1722.5
42.5°	2995.7	3001.3	2984.4	2916.7	2707.9	2480.4	2303.6	2243.4	2245.3	2094.9	1869.2
45°	3114.1	3119.8	3117.9	3151.7	3069.0	2854.6	2602.6	2463.5	2455.9	2298.0	2042.2
47.5°	3181.8	3185.6	3210.0	3279.6	3347.3	3298.4	2933.6	2707.9	2692.9	2487.9	2215.2
50°	3106.6	3108.5	3206.3	3371.8	3537.2	3685.8	3272.1	2950.5	2946.8	2698.5	2384.5
52.5°	2711.7	2745.5	2961.8	3307.8	3678.3	3960.4	3663.2	3236.4	3204.4	2897.9	2553.7
55°	2213.4	2228.4	2476.6	2916.7	3651.9	4129.6	3958.5	3544.8	3522.2	3119.8	2719.2
57.5°	1728.2	1743.2	2038.5	2405.2	3249.5	4120.2	4167.2	3877.6	3826.8	3313.5	2884.7
60°	1115.1	1162.2	1504.4	1955.7	2630.8	3834.4	4272.5	4197.3	4150.3	3505.3	3025.7
62.5°	757.8	765.4	979.7	1449.9	1968.9	3116.0	4265.0	4394.7	4387.2	3697.1	3166.8
65°	492.7	504.0	633.7	981.6	1408.5	2068.6	4076.9	4490.7	4498.2	3815.6	3258.9
66°	417.5	425.0	524.7	825.5	1233.6	1639.8	3911.5	4483.1	4498.2	3870.1	3287.1
67.5°	362.9	368.6	419.4	609.3	1008.0	1179.1	3480.8	4383.5	4426.7	3920.9	3322.9
70°	312.2	319.7	366.7	415.6	720.2	688.3	2204.0	4127.7	4171.0	3945.3	3345.4
72.5°	257.6	263.3	310.3	376.1	522.8	462.6	972.2	3533.5	3642.5	3855.0	3309.7
75°	203.1	206.9	250.1	314.0	400.5	361.1	423.1	2591.3	2728.6	3398.1	3170.5
77.5°	158.0	159.8	193.7	244.5	366.7	280.2	261.4	1261.8	1596.6	2625.2	2792.6
80°	109.1	112.8	142.9	184.3	268.9	221.9	174.9	492.7	626.2	1743.2	2117.5
82.5°	71.5	73.3	97.8	139.2	178.6	212.5	114.7	238.8	263.3	803.0	917.7
85°	48.9	48.9	69.6	86.5	122.2	141.0	75.2	126.0	137.3	304.6	111.0
87.5°	24.4	24.4	33.8	45.1	58.3	54.5	45.1	45.1	45.1	99.7	32.0
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°	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9
2.5°	776.7	776.7	778.5	780.4	782.3	782.3	784.2	784.2	782.3	784.2	786.1
5°	793.6	795.5	799.2	804.9	814.3	823.7	833.1	838.7	844.3	846.2	842.5
7.5°	819.9	823.7	836.8	851.9	866.9	889.5	902.6	910.2	913.9	917.7	913.9
10°	853.8	861.3	880.1	906.4	932.7	960.9	976.0	987.3	989.1	992.9	989.1
12.5°	893.2	906.4	934.6	972.2	1004.2	1032.4	1043.7	1036.2	1019.2	1011.7	1009.8
15°	940.3	953.4	992.9	1039.9	1077.5	1090.7	1073.8	1049.3	1030.5	1028.6	1026.8
17.5°	981.6	1000.4	1055.0	1103.9	1139.6	1126.4	1081.3	1066.2	1060.6	1068.1	1066.2
20°	1034.3	1049.3	1103.9	1164.0	1182.8	1132.1	1100.1	1090.7	1085.1	1085.1	1081.3
22.5°	1077.5	1088.8	1154.6	1220.5	1209.2	1135.8	1113.3	1094.5	1075.7	1073.8	1068.1
25°	1128.3	1132.1	1201.6	1273.1	1212.9	1139.6	1100.1	1068.1	1049.3	1043.7	1045.6
27.5°	1175.3	1184.7	1244.9	1308.8	1203.5	1118.9	1055.0	1013.6	985.4	983.5	983.5
30°	1235.5	1235.5	1290.0	1348.3	1182.8	1066.2	981.6	921.4	898.9	897.0	893.2
32.5°	1303.2	1291.9	1344.6	1376.5	1137.7	994.8	882.0	814.3	778.5	771.0	765.4
35°	1397.2	1372.8	1410.4	1382.2	1092.6	893.2	756.0	678.9	652.5	641.3	641.3
37.5°	1506.3	1470.6	1510.0	1365.2	1023.0	774.8	624.3	566.0	537.8	520.9	526.5
40°	1634.2	1589.0	1611.6	1346.4	947.8	643.1	515.3	479.5	445.7	423.1	423.1
42.5°	1784.6	1709.4	1726.3	1327.6	840.6	528.4	445.7	421.2	394.9	372.3	378.0
45°	1929.4	1856.1	1839.1	1308.8	727.8	451.3	417.5	400.5	376.1	349.8	349.8
47.5°	2096.8	2002.7	1938.8	1275.0	616.8	426.9	425.0	400.5	353.5	315.9	312.2
50°	2254.7	2168.2	2029.1	1224.2	554.8	447.6	423.1	364.8	319.7	295.2	293.4
52.5°	2422.1	2331.8	2102.4	1162.2	522.8	438.2	389.3	334.7	300.9	276.4	270.8
55°	2587.6	2540.6	2168.2	1102.0	472.0	408.1	361.1	315.9	280.2	257.6	253.9
57.5°	2775.6	2756.8	2224.6	1041.8	393.0	370.5	340.4	302.8	268.9	252.0	250.1
60°	2939.2	3005.1	2292.3	996.7	334.7	342.3	331.0	300.9	276.4	257.6	257.6
62.5°	3112.2	3243.9	2352.5	938.4	291.5	325.3	332.9	299.0	267.0	250.1	250.1
65°	3262.7	3488.3	2414.6	831.2	261.4	312.2	327.2	278.3	240.7	227.5	223.8
66°	3326.6	3557.9	2433.4	765.4	250.1	302.8	317.8	267.0	229.4	218.1	216.3
67.5°	3401.8	3667.0	2455.9	624.3	233.2	282.1	297.1	250.1	210.6	203.1	199.3
70°	3507.1	3689.6	2442.8	408.1	203.1	242.6	265.2	223.8	188.1	182.4	176.8
72.5°	3518.4	3535.4	2311.1	257.6	176.8	208.7	233.2	201.2	165.5	159.8	156.1
75°	3332.3	3132.9	1955.7	184.3	156.1	184.3	205.0	174.9	137.3	129.8	126.0
77.5°	2845.2	2486.0	1406.6	137.3	135.4	158.0	171.1	152.3	114.7	109.1	107.2
80°	1997.1	1686.8	705.2	103.4	107.2	131.6	142.9	127.9	95.9	88.4	84.6
82.5°	808.6	716.5	242.6	77.1	80.9	99.7	122.2	105.3	73.3	63.9	56.4
85°	92.1	156.1	105.3	52.7	54.5	67.7	82.7	63.9	43.3	35.7	30.1
87.5°	18.8	33.8	37.6	20.7	18.8	26.3	37.6	22.6	15.0	5.6	7.5
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)