

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: P595227

Luminaire Tested: **IST-PA1D-750-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595227
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-750-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 5000K, 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: 8386 lumens
Efficiency: N/A
Efficacy: 134.4 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

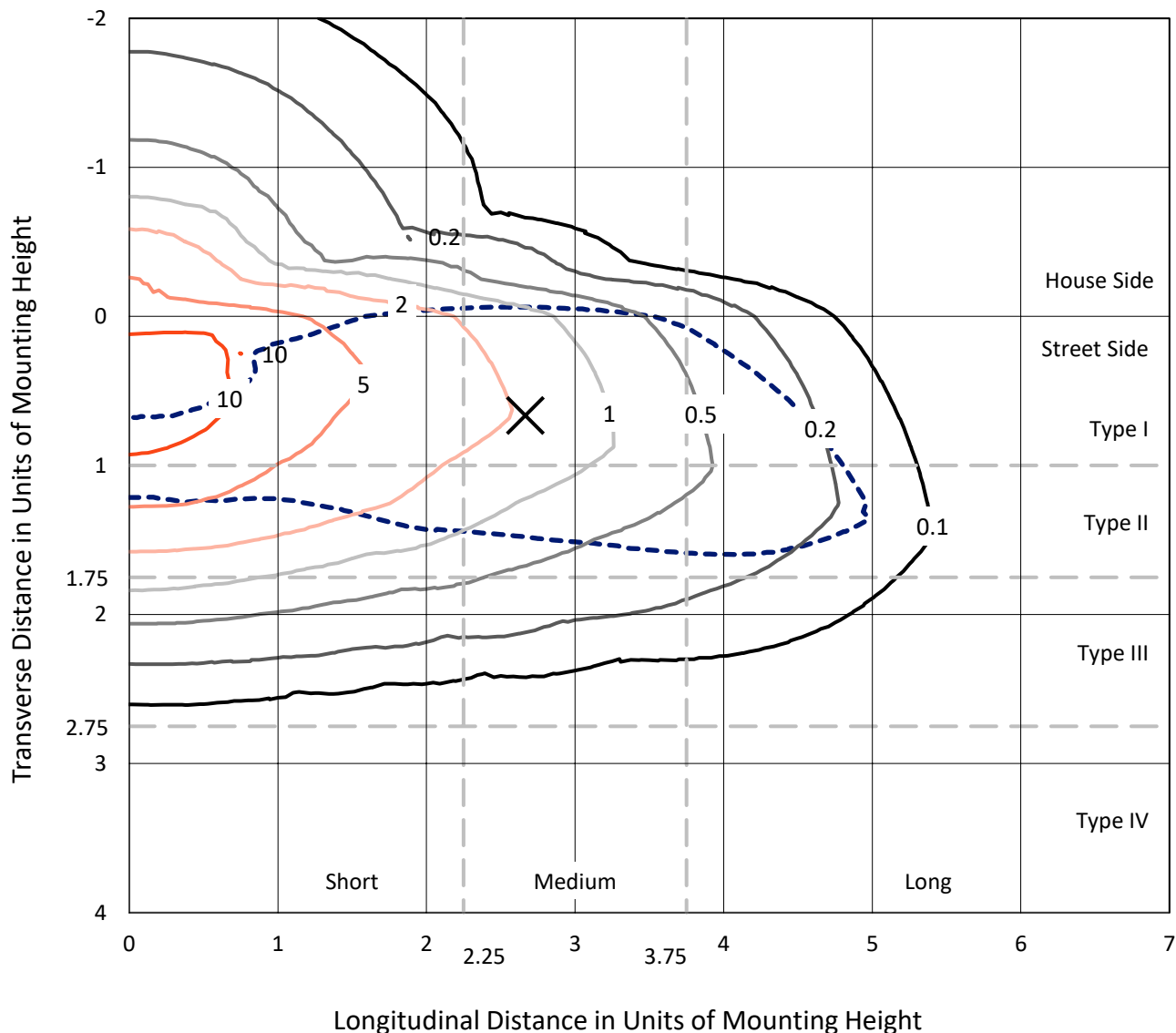
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

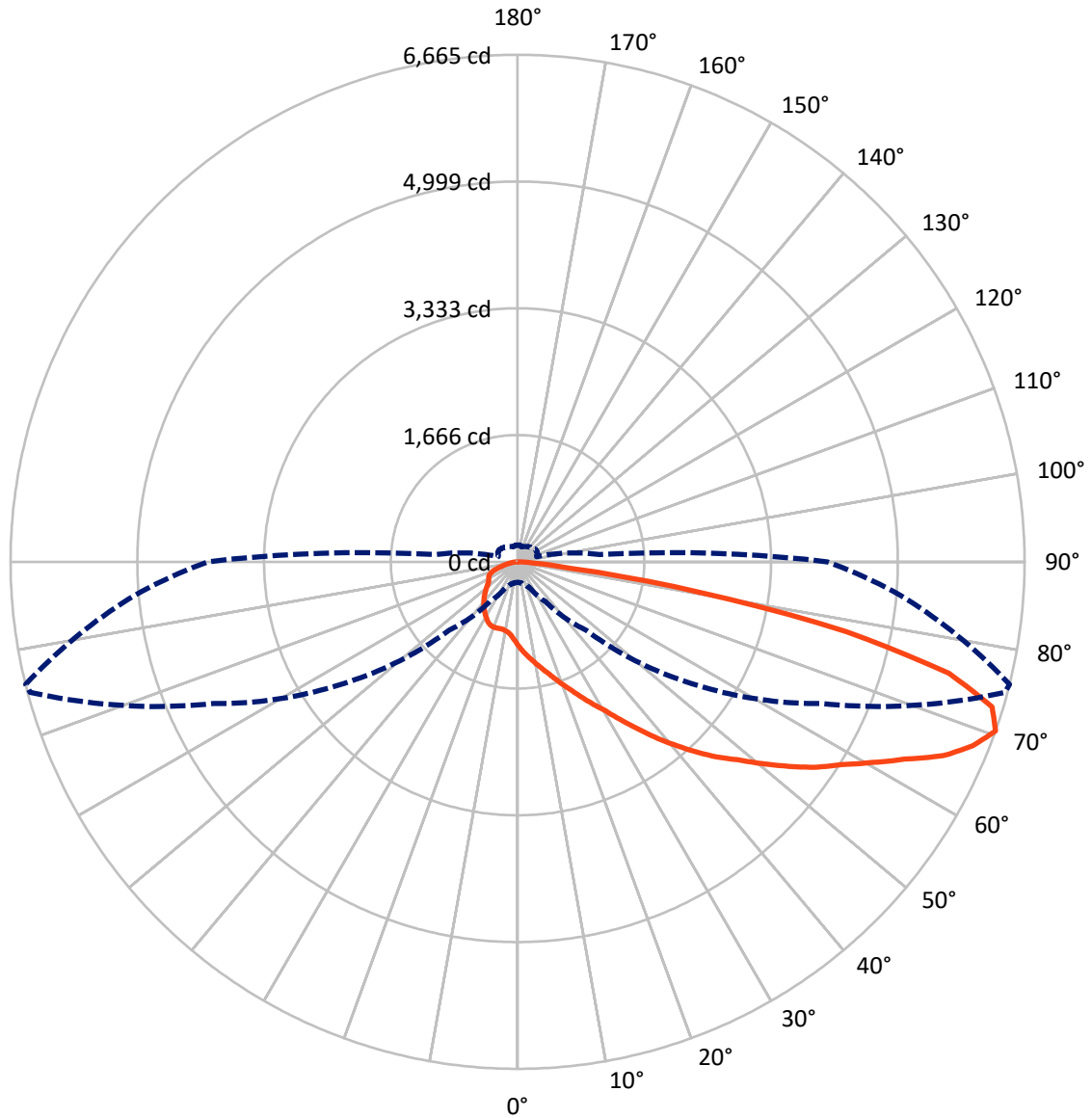
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1345.0	0.0	1345.0
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	7041.0	0.0	7041.0
	% Fixture	84.0	0.0	84.0
Total	Lumens	8386.0	0.0	8386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	1.3
10°-20°	353.8	4.2
20°-30°	652.0	7.8
30°-40°	1092.5	13.0
40°-50°	1552.3	18.5
50°-60°	1792.3	21.4
60°-70°	1647.6	19.6
70°-80°	1038.9	12.4
80°-90°	149.4	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°	8386.0	100.0
0°-180°	8386.0	100.0

Coefficient of Utilization

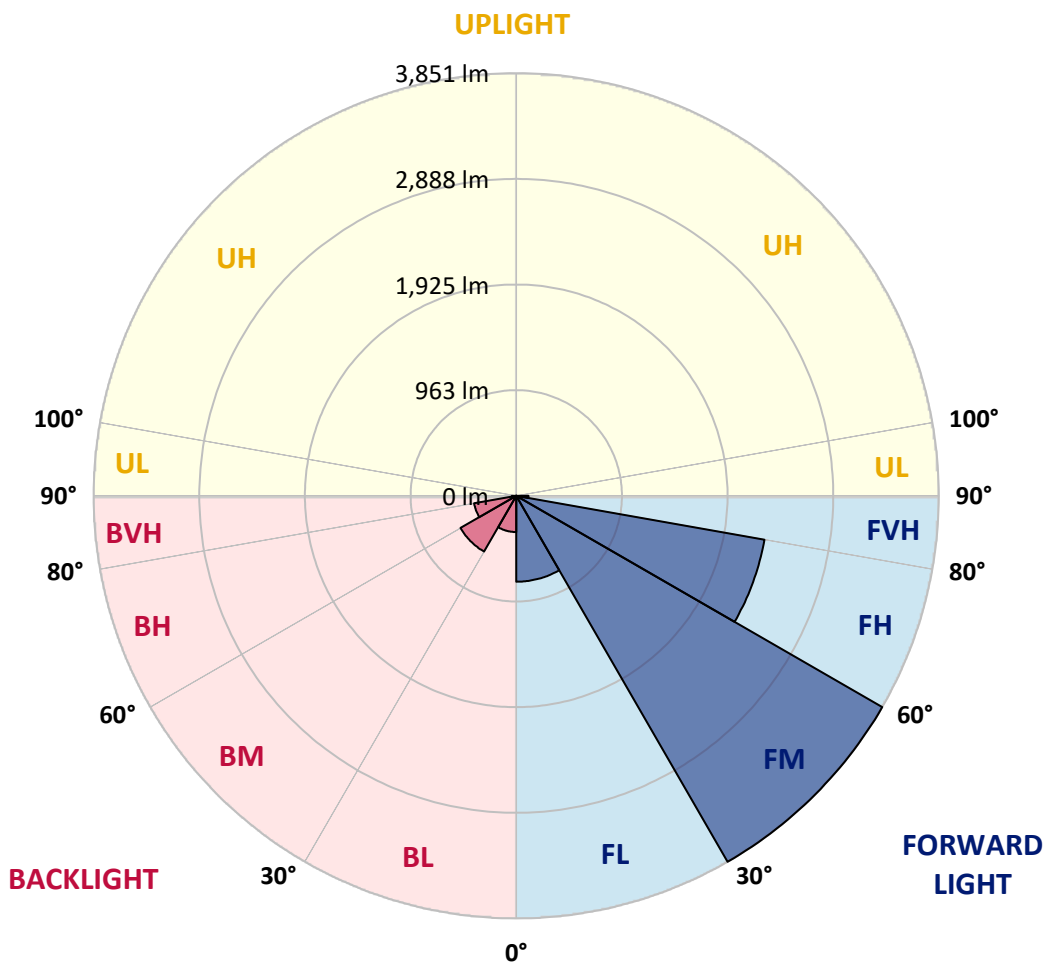


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	782.9	9.3			
FM (30°-60°)	3850.7	45.9			
FH (60°-80°)	2296.6	27.4			G2/5000
FVH (80°-90°)	110.8	1.3			G2/225
BL (0°-30°)	330.2	3.9	B1/500		
BM (30°-60°)	586.4	7.0	B1/1000		
BH (60°-80°)	389.8	4.6	B1/500		G1/500
BVH (80°-90°)	38.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1
2.5°	1324.2	1322.2	1316.1	1306.0	1297.9	1273.7	1241.4	1213.2	1170.8	1166.7	1124.3
5°	1443.3	1435.2	1435.2	1425.1	1415.0	1388.8	1348.4	1297.9	1237.4	1233.3	1152.6
7.5°	1499.8	1501.8	1497.8	1489.7	1491.7	1469.5	1433.2	1382.7	1300.0	1295.9	1191.0
10°	1580.5	1578.5	1570.4	1564.4	1562.4	1542.2	1509.9	1463.5	1376.7	1368.6	1235.4
12.5°	1659.3	1653.2	1655.2	1653.2	1649.2	1629.0	1598.7	1552.3	1445.3	1441.3	1289.9
15°	1703.7	1701.7	1715.8	1719.8	1736.0	1717.8	1691.6	1639.1	1542.2	1526.0	1354.5
17.5°	1731.9	1729.9	1744.0	1776.3	1806.6	1806.6	1798.5	1742.0	1635.0	1622.9	1427.1
20°	1780.4	1788.4	1812.7	1838.9	1883.3	1891.4	1889.4	1865.2	1742.0	1729.9	1507.9
22.5°	1877.3	1873.2	1893.4	1933.8	1974.2	1986.3	1988.3	1988.3	1865.2	1843.0	1590.6
25°	2085.2	2075.1	2058.9	2054.9	2103.3	2101.3	2095.3	2109.4	1994.3	1978.2	1685.5
27.5°	2480.8	2458.6	2396.0	2270.9	2242.6	2252.7	2222.4	2224.5	2141.7	2121.5	1766.2
30°	2856.3	2846.2	2787.6	2636.2	2476.8	2420.3	2367.8	2345.6	2305.2	2270.9	1853.0
32.5°	3195.4	3197.4	3126.8	2961.2	2797.7	2620.1	2529.3	2482.8	2499.0	2468.7	1972.1
35°	3425.5	3407.3	3362.9	3251.9	3074.3	2904.7	2731.1	2628.2	2715.0	2680.7	2091.2
37.5°	3560.7	3546.6	3510.3	3431.6	3342.7	3179.2	2959.2	2801.8	2971.3	2920.9	2242.6
40°	3629.4	3609.2	3572.9	3540.6	3498.2	3409.4	3215.6	2999.6	3205.5	3161.1	2392.0
42.5°	3637.5	3623.3	3603.1	3587.0	3601.1	3589.0	3465.9	3229.7	3451.7	3403.3	2563.6
45°	3631.4	3641.5	3617.3	3589.0	3617.3	3720.2	3720.2	3459.8	3696.0	3659.7	2727.1
47.5°	3635.4	3625.3	3617.3	3609.2	3613.2	3754.5	3895.8	3675.8	3930.1	3887.8	2918.8
50°	3467.9	3482.0	3550.7	3580.9	3599.1	3762.6	4037.1	3910.0	4220.8	4168.3	3132.8
52.5°	2935.0	2943.1	3255.9	3482.0	3554.7	3730.3	4136.0	4170.4	4507.5	4467.1	3362.9
55°	2260.8	2303.2	2599.9	3153.0	3453.8	3675.8	4166.3	4339.9	4800.1	4767.9	3595.1
57.5°	1861.1	1867.2	2038.8	2533.3	3134.8	3625.3	4196.6	4495.3	5062.6	5026.2	3837.3
60°	1544.2	1530.1	1635.0	1954.0	2603.9	3423.5	4202.7	4618.5	5367.4	5355.3	4087.6
62.5°	1134.4	1150.6	1251.5	1522.0	2036.7	3013.7	4172.4	4723.4	5730.7	5714.6	4366.2
65°	696.4	716.6	839.7	1088.0	1542.2	2392.0	3974.6	4777.9	6112.2	6148.6	4666.9
67.5°	369.4	383.5	456.2	658.1	1057.7	1822.8	3498.2	4709.3	6435.2	6451.3	4955.6
70°	270.5	272.5	296.7	371.4	637.9	1267.7	2785.6	4410.6	6633.0	6665.3	5050.5
72.5°	236.2	238.2	248.3	266.5	347.2	773.1	1996.4	3889.8	6550.2	6522.0	4891.0
75°	214.0	214.0	222.0	228.1	254.3	427.9	1223.3	3183.3	5918.4	5855.9	4170.4
77.5°	183.7	183.7	191.8	199.8	220.0	276.5	639.9	2359.7	4525.6	4418.6	2852.2
80°	147.4	147.4	157.4	167.5	193.8	207.9	312.9	1578.5	2587.8	2430.4	1297.9
82.5°	100.9	109.0	127.2	139.3	161.5	147.4	183.7	682.3	815.5	706.5	292.7
85°	60.6	64.6	90.8	105.0	121.1	78.7	113.0	262.4	244.2	214.0	66.6
87.5°	6.1	10.1	36.3	42.4	42.4	22.2	48.4	62.6	70.6	72.7	16.1
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°	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1
2.5°	1100.1	1075.9	1029.5	987.1	944.7	916.4	888.2	878.1	863.9	853.9	861.9
5°	1110.2	1059.7	970.9	896.2	845.8	807.4	789.3	779.2	771.1	769.1	767.1
7.5°	1122.3	1047.6	928.5	845.8	797.3	779.2	775.1	775.1	775.1	777.1	779.2
10°	1148.6	1051.7	906.3	817.5	791.3	787.2	789.3	797.3	797.3	799.4	799.4
12.5°	1178.8	1061.8	890.2	813.5	797.3	799.4	801.4	805.4	805.4	811.5	809.4
15°	1223.3	1082.0	888.2	817.5	803.4	799.4	799.4	797.3	797.3	797.3	801.4
17.5°	1279.8	1110.2	890.2	817.5	797.3	789.3	783.2	777.1	769.1	773.1	769.1
20°	1336.3	1144.5	890.2	807.4	781.2	761.0	742.8	732.7	722.6	720.6	722.6
22.5°	1406.9	1184.9	880.1	785.2	746.9	718.6	692.4	678.2	662.1	656.0	652.0
25°	1467.5	1217.2	859.9	752.9	708.5	668.1	633.8	609.6	589.4	585.4	585.4
27.5°	1530.1	1245.5	829.6	712.6	654.0	609.6	571.3	541.0	520.8	518.8	516.8
30°	1588.6	1269.7	789.3	668.1	605.6	553.1	508.7	482.4	464.3	454.2	448.1
32.5°	1665.3	1302.0	750.9	623.7	549.0	496.6	456.2	434.0	409.8	393.6	387.6
35°	1762.2	1340.3	708.5	575.3	498.6	446.1	421.9	389.6	359.3	341.1	335.1
37.5°	1871.2	1394.8	664.1	524.8	448.1	409.8	395.6	345.2	312.9	306.8	304.8
40°	2006.5	1447.3	613.6	472.3	399.7	389.6	365.4	312.9	296.7	294.7	292.7
42.5°	2141.7	1503.8	565.2	419.9	361.3	365.4	331.0	304.8	290.7	286.6	284.6
45°	2299.1	1560.4	516.8	373.4	331.0	331.0	312.9	296.7	284.6	280.6	280.6
47.5°	2464.7	1616.9	464.3	333.1	308.8	296.7	298.7	286.6	278.6	274.5	272.5
50°	2672.6	1671.4	415.8	304.8	294.7	278.6	284.6	276.5	272.5	268.5	266.5
52.5°	2868.4	1695.6	371.4	288.7	286.6	270.5	272.5	268.5	266.5	260.4	258.4
55°	3060.1	1689.5	337.1	280.6	276.5	268.5	264.4	262.4	260.4	254.3	252.3
57.5°	3274.1	1681.5	314.9	278.6	270.5	262.4	262.4	256.4	248.3	248.3	248.3
60°	3496.2	1655.2	304.8	278.6	268.5	262.4	258.4	252.3	244.2	246.3	244.2
62.5°	3746.5	1604.8	298.7	284.6	270.5	260.4	256.4	248.3	238.2	240.2	238.2
65°	3966.5	1501.8	294.7	290.7	274.5	262.4	252.3	242.2	230.1	232.1	230.1
67.5°	4115.9	1328.2	282.6	294.7	280.6	260.4	248.3	234.2	218.0	226.1	224.1
70°	4073.5	1079.9	260.4	286.6	286.6	262.4	242.2	224.1	205.9	222.0	216.0
72.5°	3744.4	811.5	218.0	258.4	282.6	262.4	230.1	207.9	191.8	201.9	189.7
75°	3074.3	551.1	173.6	205.9	264.4	264.4	220.0	191.8	171.6	165.5	161.5
77.5°	1917.6	343.2	135.2	151.4	222.0	262.4	209.9	171.6	143.3	139.3	135.2
80°	759.0	183.7	107.0	109.0	163.5	240.2	195.8	145.3	115.1	111.0	102.9
82.5°	173.6	92.9	74.7	72.7	100.9	195.8	177.6	115.1	88.8	88.8	74.7
85°	52.5	48.4	48.4	46.4	50.5	100.9	137.3	78.7	60.6	42.4	36.3
87.5°	14.1	20.2	18.2	16.1	16.1	14.1	44.4	20.2	12.1	6.1	4.0
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)