

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: P595310

Luminaire Tested: **IST-PA1E-750-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595310  
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-PA1E-750-U-T2U  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 5000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10252 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

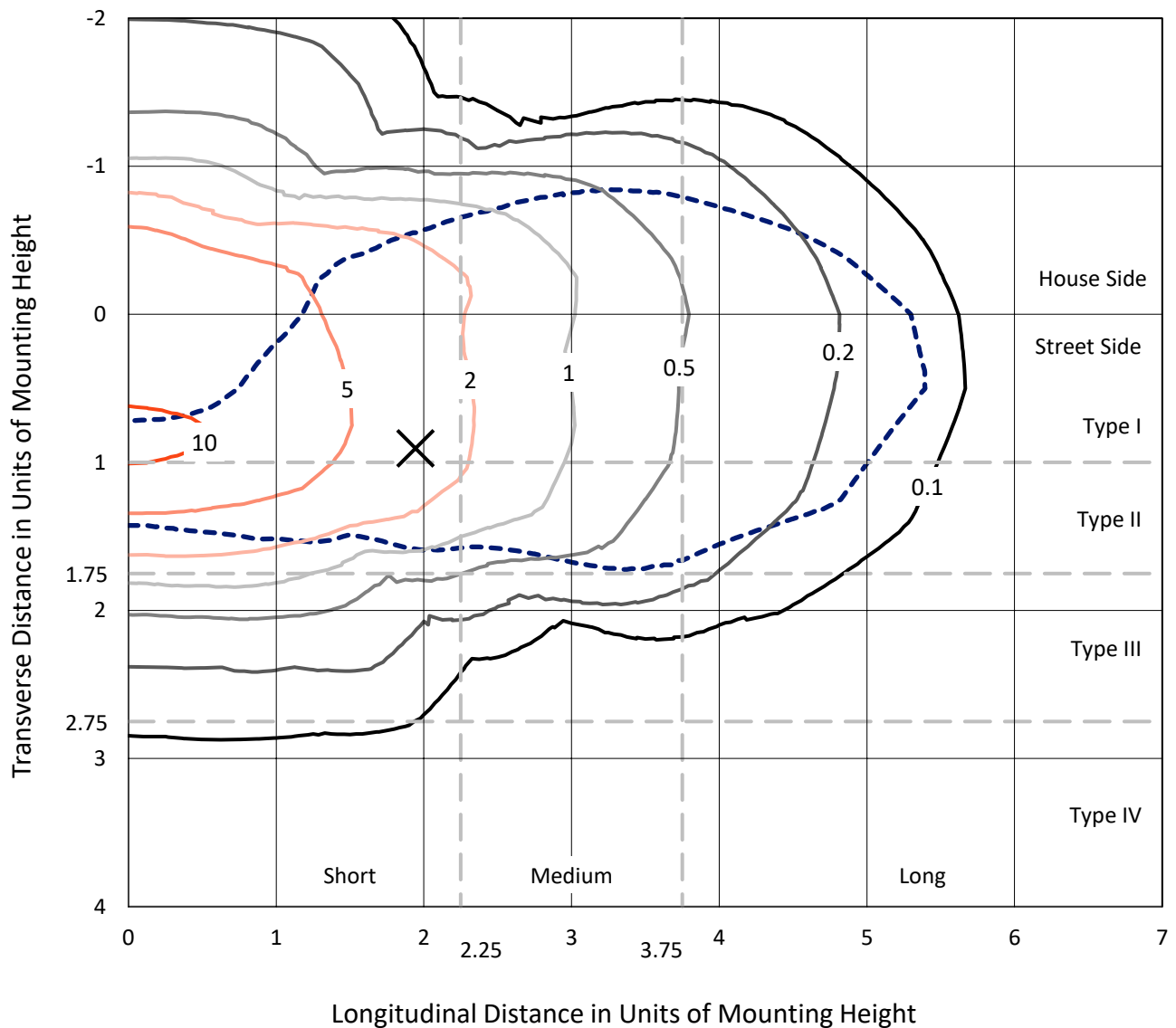
Input Watts (W): 81.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

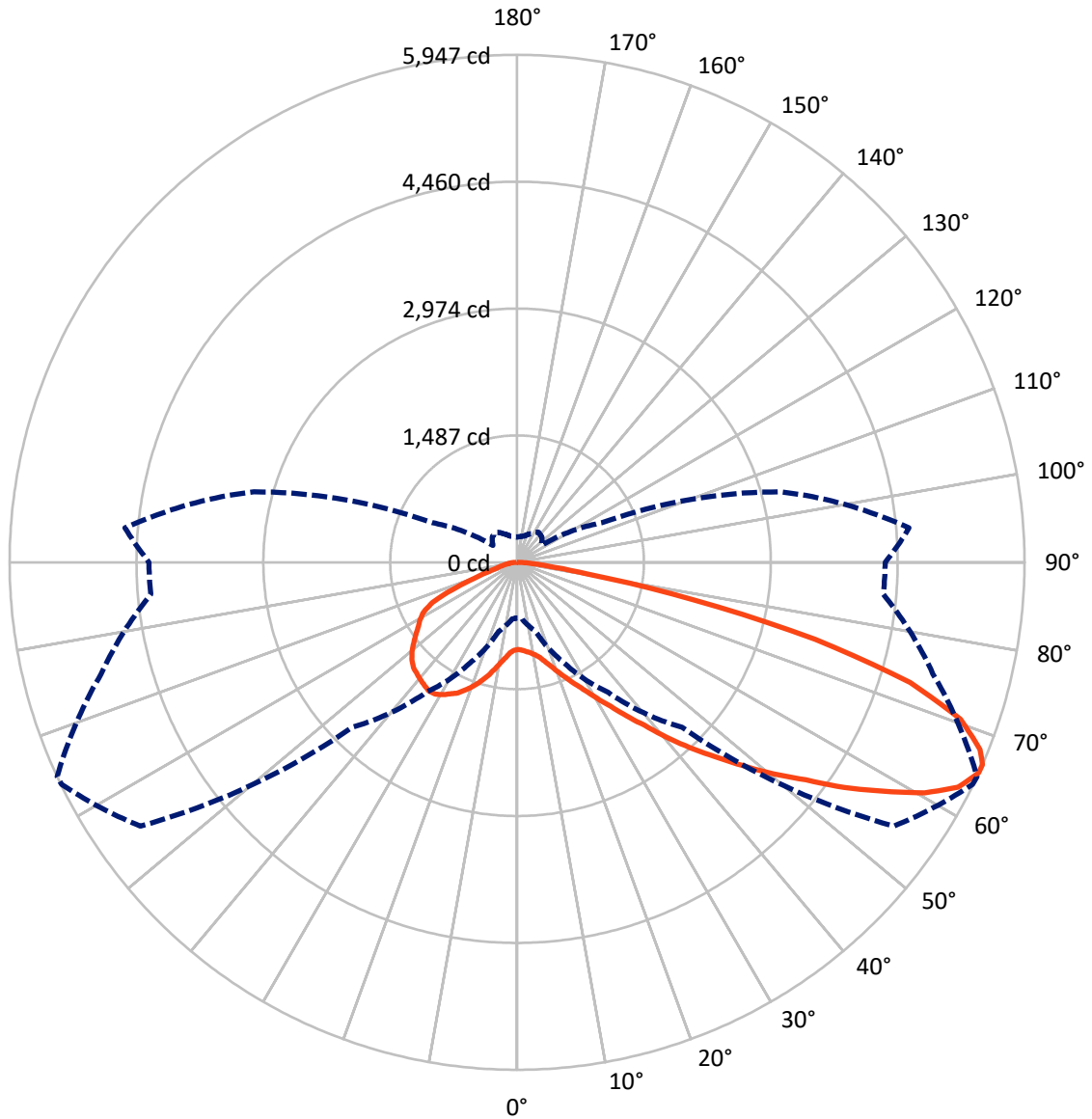
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11.3 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
<b>House Side</b>	Lumens	3112.9	0.0	3112.9
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	7139.1	0.0	7139.1
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	10252.0	0.0	10252.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.2	1.0
10°-20°	363.4	3.5
20°-30°	711.6	6.9
30°-40°	1162.8	11.3
40°-50°	1845.6	18.0
50°-60°	2373.7	23.2
60°-70°	2140.6	20.9
70°-80°	1327.7	13.0
80°-90°	222.5	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°	10252.0	100.0
0°-180°	10252.0	100.0

**Coefficient of Utilization**

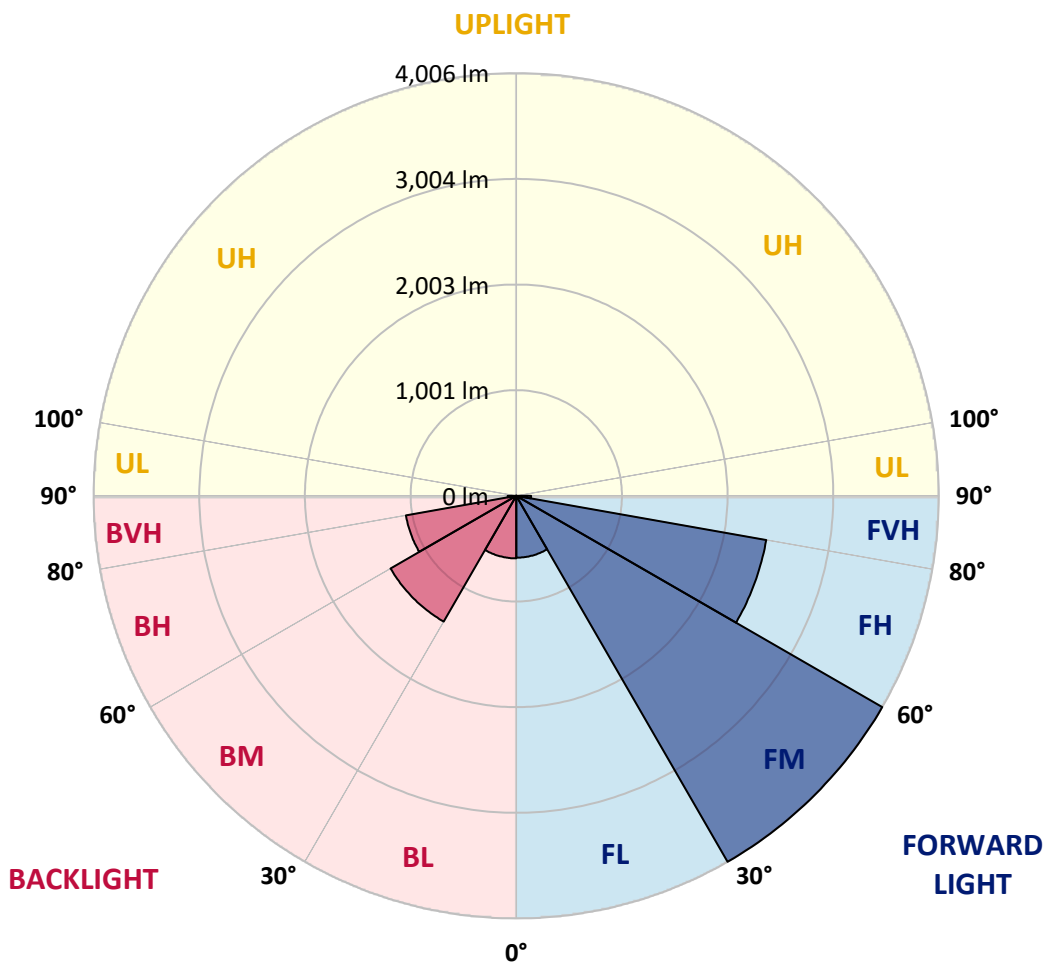


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	586.3	5.7			
FM (30°-60°)	4005.9	39.1			
FH (60°-80°)	2406.2	23.5			G2/5000
FVH (80°-90°)	140.7	1.4			G2/225
BL (0°-30°)	592.9	5.8	B2/1000		
BM (30°-60°)	1376.1	13.4	B2/2500		
BH (60°-80°)	1062.1	10.4	B3/2500		G3/2500
BVH (80°-90°)	81.7	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9
2.5°	1024.4	1026.9	1029.3	1024.4	1029.3	1031.8	1026.9	1026.9	1029.3	1024.4	1024.4
5°	1016.9	1019.4	1024.4	1026.9	1036.8	1041.8	1044.3	1044.3	1046.7	1044.3	1046.7
7.5°	997.0	997.0	1007.0	1011.9	1026.9	1044.3	1054.2	1069.1	1069.1	1071.6	1079.1
10°	1016.9	1016.9	1024.4	1031.8	1044.3	1059.2	1074.1	1091.5	1096.5	1113.9	1123.8
12.5°	1046.7	1051.7	1061.7	1071.6	1086.5	1103.9	1116.4	1133.8	1136.3	1153.7	1173.5
15°	1096.5	1101.4	1106.4	1118.8	1138.7	1161.1	1183.5	1195.9	1200.9	1210.8	1225.8
17.5°	1171.1	1176.0	1178.5	1186.0	1200.9	1230.7	1263.1	1273.0	1278.0	1278.0	1290.4
20°	1297.9	1295.4	1290.4	1275.5	1275.5	1302.8	1347.6	1365.0	1370.0	1360.0	1352.6
22.5°	1444.6	1442.1	1422.2	1404.8	1392.3	1397.3	1442.1	1471.9	1469.4	1449.5	1419.7
25°	1636.0	1641.0	1608.7	1563.9	1526.6	1516.7	1544.0	1573.8	1578.8	1541.5	1491.8
27.5°	1864.7	1857.3	1839.9	1767.8	1695.7	1650.9	1665.8	1698.2	1700.6	1660.9	1581.3
30°	2133.3	2120.8	2076.1	2001.5	1889.6	1827.5	1815.0	1842.4	1849.8	1782.7	1668.3
32.5°	2431.6	2419.2	2362.0	2247.6	2125.8	2021.4	1981.6	2018.9	2013.9	1936.8	1777.7
35°	2792.1	2789.7	2685.2	2543.5	2389.4	2250.1	2195.4	2195.4	2210.3	2096.0	1917.0
37.5°	3274.5	3294.4	3140.2	2918.9	2702.6	2516.2	2424.2	2419.2	2421.7	2297.4	2073.6
40°	3709.6	3702.1	3612.6	3406.3	3090.5	2851.8	2715.1	2685.2	2692.7	2533.6	2277.5
42.5°	3960.7	3968.2	3945.8	3856.3	3580.3	3279.5	3045.8	2966.2	2968.7	2769.8	2471.4
45°	4117.4	4124.8	4122.3	4167.1	4057.7	3774.2	3441.1	3257.1	3247.1	3038.3	2700.2
47.5°	4206.9	4211.8	4244.2	4336.2	4425.7	4361.0	3878.7	3580.3	3560.4	3289.4	2928.9
50°	4107.4	4109.9	4239.2	4458.0	4676.8	4873.2	4326.2	3901.0	3896.1	3567.9	3152.7
52.5°	3585.3	3630.0	3916.0	4373.4	4863.3	5236.2	4843.4	4279.0	4236.7	3831.4	3376.4
55°	2926.4	2946.3	3274.5	3856.3	4828.4	5460.0	5233.7	4686.7	4656.9	4124.8	3595.2
57.5°	2284.9	2304.8	2695.2	3180.0	4296.4	5447.5	5509.7	5126.8	5059.7	4380.9	3814.0
60°	1474.4	1536.6	1989.1	2585.8	3478.4	5069.6	5648.9	5549.5	5487.3	4634.5	4000.5
62.5°	1002.0	1011.9	1295.4	1917.0	2603.2	4119.8	5639.0	5810.5	5800.6	4888.1	4187.0
65°	651.4	666.3	837.9	1297.9	1862.3	2735.0	5390.4	5937.3	5947.3	5044.8	4308.8
66°	552.0	561.9	693.7	1091.5	1631.0	2168.1	5171.6	5927.4	5947.3	5116.9	4346.1
67.5°	479.9	487.3	554.5	805.6	1332.7	1558.9	4602.2	5795.6	5852.8	5184.0	4393.3
70°	412.7	422.7	484.8	549.5	952.3	910.0	2914.0	5457.5	5514.7	5216.3	4423.2
72.5°	340.6	348.1	410.2	497.3	691.2	611.6	1285.4	4671.8	4816.0	5097.0	4375.9
75°	268.5	273.5	330.7	415.2	529.6	477.4	559.4	3426.2	3607.7	4492.8	4191.9
77.5°	208.9	211.3	256.1	323.2	484.8	370.5	345.6	1668.3	2110.9	3470.9	3692.2
80°	144.2	149.2	189.0	243.7	355.5	293.4	231.2	651.4	827.9	2304.8	2799.6
82.5°	94.5	97.0	129.3	184.0	236.2	281.0	151.7	315.8	348.1	1061.7	1213.3
85°	64.6	64.6	92.0	114.4	161.6	186.5	99.5	166.6	181.5	402.8	146.7
87.5°	32.3	32.3	44.8	59.7	77.1	72.1	59.7	59.7	59.7	131.8	42.3
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°	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9
2.5°	1026.9	1026.9	1029.3	1031.8	1034.3	1034.3	1036.8	1036.8	1034.3	1036.8	1039.3
5°	1049.2	1051.7	1056.7	1064.1	1076.6	1089.0	1101.4	1108.9	1116.4	1118.8	1113.9
7.5°	1084.0	1089.0	1106.4	1126.3	1146.2	1176.0	1193.4	1203.4	1208.4	1213.3	1208.4
10°	1128.8	1138.7	1163.6	1198.4	1233.2	1270.5	1290.4	1305.3	1307.8	1312.8	1307.8
12.5°	1181.0	1198.4	1235.7	1285.4	1327.7	1365.0	1379.9	1370.0	1347.6	1337.6	1335.2
15°	1243.2	1260.6	1312.8	1374.9	1424.7	1442.1	1419.7	1387.4	1362.5	1360.0	1357.5
17.5°	1297.9	1322.7	1394.8	1459.5	1506.7	1489.3	1429.6	1409.7	1402.3	1412.2	1409.7
20°	1367.5	1387.4	1459.5	1539.0	1563.9	1496.8	1454.5	1442.1	1434.6	1434.6	1429.6
22.5°	1424.7	1439.6	1526.6	1613.6	1598.7	1501.7	1471.9	1447.0	1422.2	1419.7	1412.2
25°	1491.8	1496.8	1588.8	1683.2	1603.7	1506.7	1454.5	1412.2	1387.4	1379.9	1382.4
27.5°	1554.0	1566.4	1645.9	1730.5	1591.2	1479.4	1394.8	1340.1	1302.8	1300.3	1300.3
30°	1633.5	1633.5	1705.6	1782.7	1563.9	1409.7	1297.9	1218.3	1188.5	1186.0	1181.0
32.5°	1723.0	1708.1	1777.7	1820.0	1504.2	1315.3	1166.1	1076.6	1029.3	1019.4	1011.9
35°	1847.3	1815.0	1864.7	1827.5	1444.6	1181.0	999.5	897.6	862.8	847.8	847.8
37.5°	1991.5	1944.3	1996.5	1805.1	1352.6	1024.4	825.5	748.4	711.1	688.7	696.2
40°	2160.6	2100.9	2130.8	1780.2	1253.1	850.3	681.3	634.0	589.3	559.4	559.4
42.5°	2359.5	2260.1	2282.4	1755.3	1111.4	698.7	589.3	556.9	522.1	492.3	499.8
45°	2551.0	2454.0	2431.6	1730.5	962.2	596.7	552.0	529.6	497.3	462.5	462.5
47.5°	2772.3	2647.9	2563.4	1685.7	815.5	564.4	561.9	529.6	467.4	417.7	412.7
50°	2981.1	2866.7	2682.7	1618.6	733.5	591.7	559.4	482.3	422.7	390.4	387.9
52.5°	3202.4	3083.0	2779.7	1536.6	691.2	579.3	514.7	442.6	397.8	365.5	358.0
55°	3421.2	3359.0	2866.7	1457.0	624.1	539.5	477.4	417.7	370.5	340.6	335.7
57.5°	3669.8	3645.0	2941.3	1377.4	519.6	489.8	450.0	400.3	355.5	333.2	330.7
60°	3886.1	3973.2	3030.8	1317.8	442.6	452.5	437.6	397.8	365.5	340.6	340.6
62.5°	4114.9	4288.9	3110.4	1240.7	385.4	430.1	440.1	395.3	353.1	330.7	330.7
65°	4313.8	4612.1	3192.4	1099.0	345.6	412.7	432.6	368.0	318.2	300.8	295.9
66°	4398.3	4704.1	3217.3	1011.9	330.7	400.3	420.2	353.1	303.3	288.4	285.9
67.5°	4497.8	4848.3	3247.1	825.5	308.3	372.9	392.8	330.7	278.5	268.5	263.6
70°	4637.0	4878.2	3229.7	539.5	268.5	320.7	350.6	295.9	248.6	241.2	233.7
72.5°	4651.9	4674.3	3055.7	340.6	233.7	276.0	308.3	266.0	218.8	211.3	206.4
75°	4405.8	4142.2	2585.8	243.7	206.4	243.7	271.0	231.2	181.5	171.6	166.6
77.5°	3761.8	3286.9	1859.8	181.5	179.0	208.9	226.3	201.4	151.7	144.2	141.7
80°	2640.5	2230.2	932.4	136.7	141.7	174.0	189.0	169.1	126.8	116.9	111.9
82.5°	1069.1	947.3	320.7	101.9	106.9	131.8	161.6	139.2	97.0	84.5	74.6
85°	121.8	206.4	139.2	69.6	72.1	89.5	109.4	84.5	57.2	47.2	39.8
87.5°	24.9	44.8	49.7	27.3	24.9	34.8	49.7	29.8	19.9	7.5	9.9
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)