

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: P594950

Luminaire Tested: **IST-PA1A-730-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594950  
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-PA1A-730-U-T2U  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3755 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

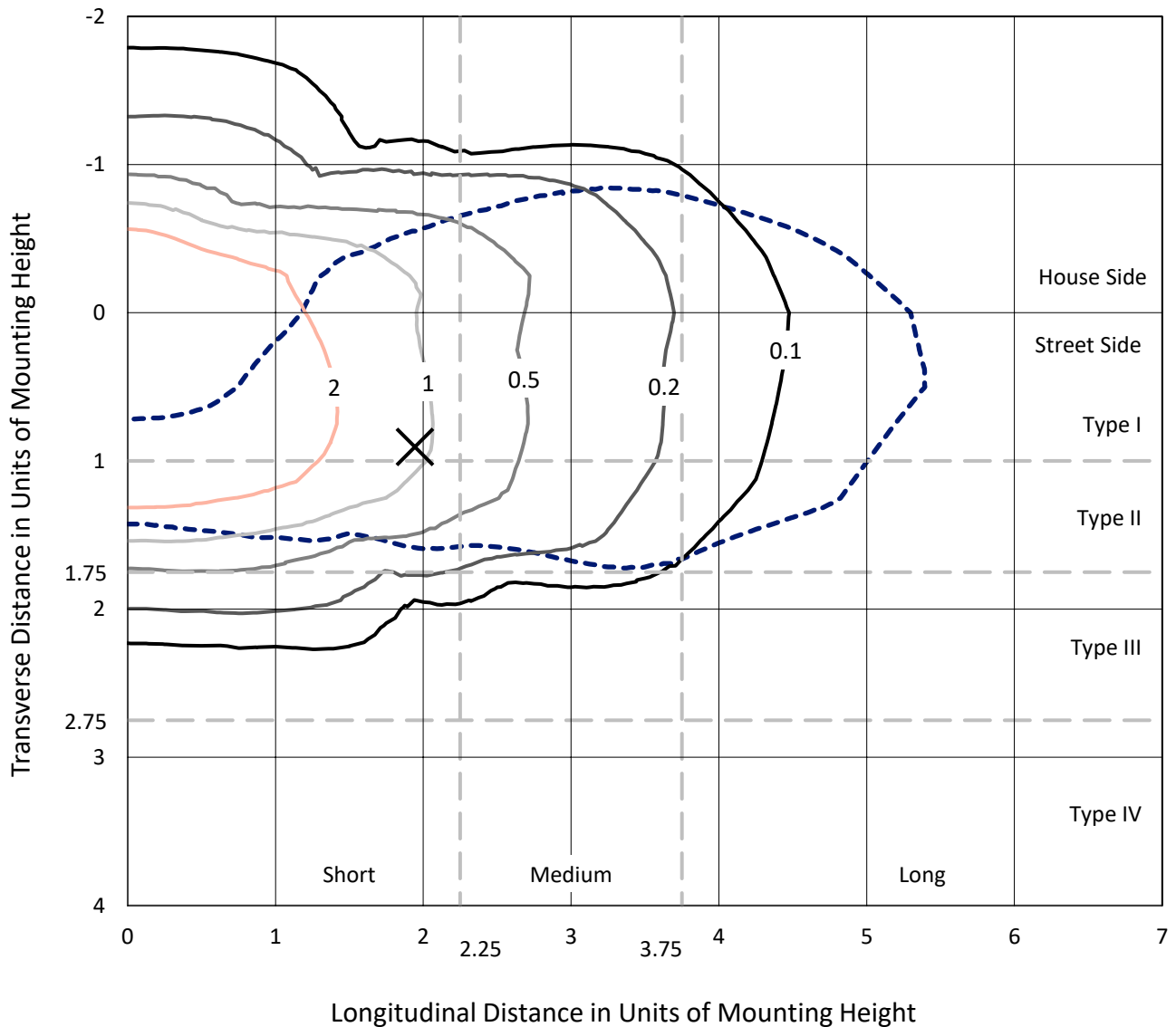
Input Watts (W): 28.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

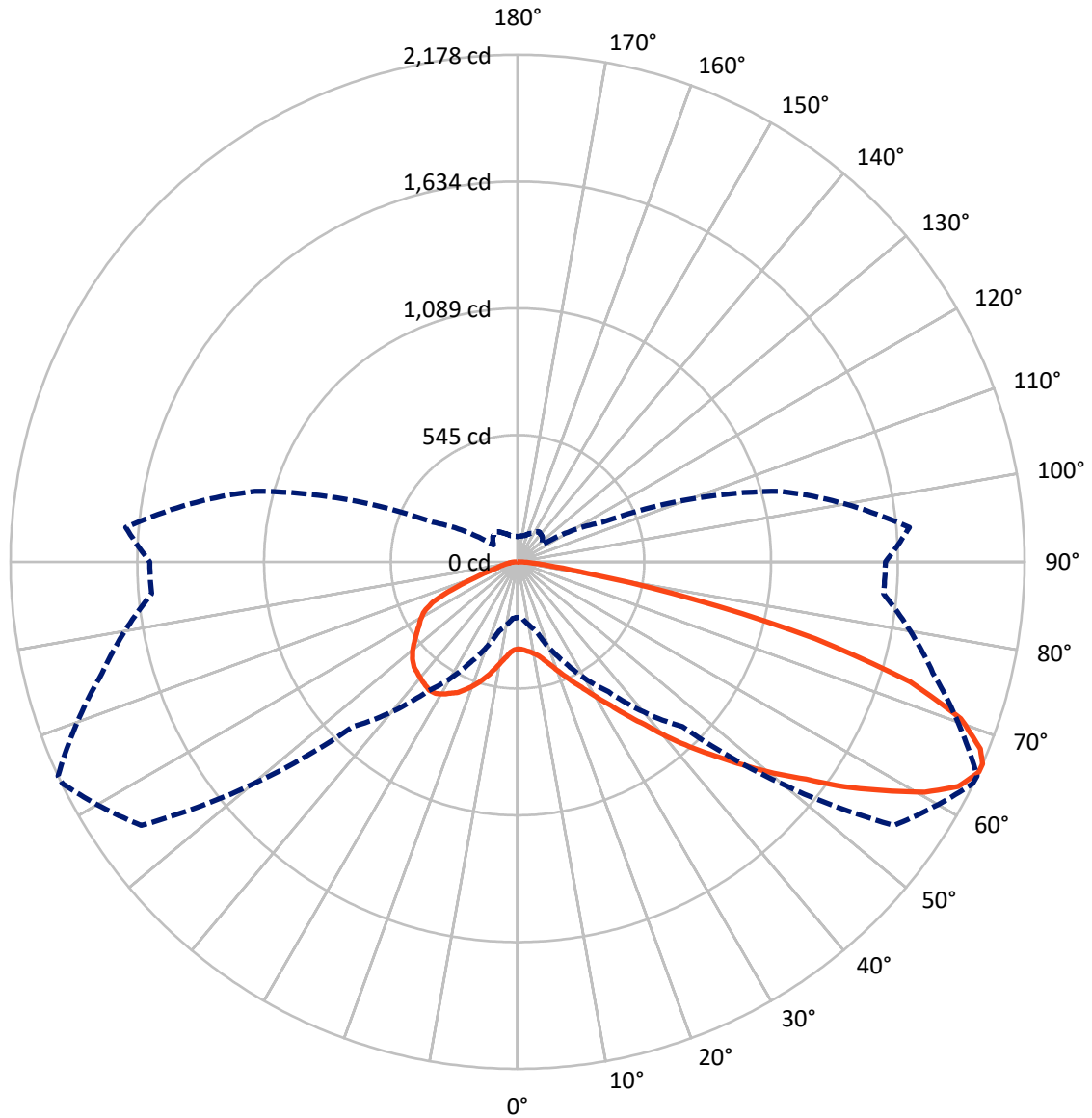
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.2 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	1140.2	0.0	1140.2
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	2614.8	0.0	2614.8
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	3755.0	0.0	3755.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.2	1.0
10°-20°	133.1	3.5
20°-30°	260.6	6.9
30°-40°	425.9	11.3
40°-50°	676.0	18.0
50°-60°	869.4	23.2
60°-70°	784.1	20.9
70°-80°	486.3	13.0
80°-90°	81.5	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°	3755.0	100.0
0°-180°	3755.0	100.0

**Coefficient of Utilization**

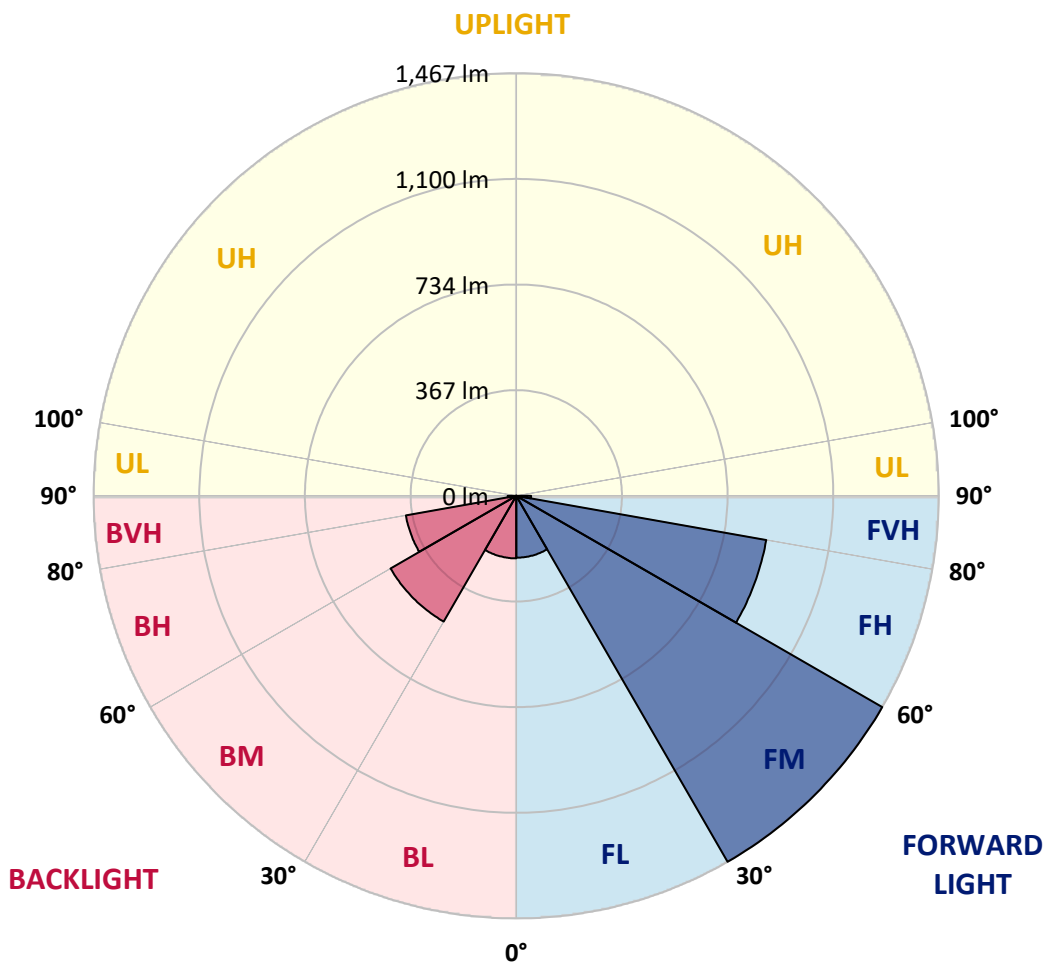


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	214.7	5.7			
FM (30°-60°)	1467.2	39.1			
FH (60°-80°)	881.3	23.5			G1/1800
FVH (80°-90°)	51.5	1.4			G1/100
BL (0°-30°)	217.2	5.8	B1/500		
BM (30°-60°)	504.0	13.4	B1/1000		
BH (60°-80°)	389.0	10.4	B1/500		G1/500
BVH (80°-90°)	29.9	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3
2.5°	375.2	376.1	377.0	375.2	377.0	377.9	376.1	376.1	377.0	375.2	375.2
5°	372.5	373.4	375.2	376.1	379.7	381.6	382.5	382.5	383.4	382.5	383.4
7.5°	365.2	365.2	368.8	370.6	376.1	382.5	386.1	391.6	391.6	392.5	395.2
10°	372.5	372.5	375.2	377.9	382.5	387.9	393.4	399.8	401.6	408.0	411.6
12.5°	383.4	385.2	388.9	392.5	398.0	404.3	408.9	415.3	416.2	422.5	429.8
15°	401.6	403.4	405.2	409.8	417.1	425.3	433.5	438.0	439.9	443.5	449.0
17.5°	428.9	430.7	431.7	434.4	439.9	450.8	462.6	466.3	468.1	468.1	472.6
20°	475.4	474.5	472.6	467.2	467.2	477.2	493.6	500.0	501.8	498.1	495.4
22.5°	529.1	528.2	520.9	514.5	510.0	511.8	528.2	539.1	538.2	530.9	520.0
25°	599.2	601.0	589.2	572.8	559.1	555.5	565.5	576.5	578.3	564.6	546.4
27.5°	683.0	680.3	673.9	647.5	621.1	604.7	610.1	622.0	622.9	608.3	579.2
30°	781.4	776.8	760.4	733.1	692.1	669.3	664.8	674.8	677.5	652.9	611.1
32.5°	890.6	886.1	865.1	823.2	778.6	740.4	725.8	739.5	737.6	709.4	651.1
35°	1022.7	1021.8	983.5	931.6	875.2	824.2	804.1	804.1	809.6	767.7	702.1
37.5°	1199.3	1206.6	1150.2	1069.1	989.9	921.6	887.9	886.1	887.0	841.5	759.5
40°	1358.7	1356.0	1323.2	1247.6	1132.0	1044.5	994.4	983.5	986.3	928.0	834.2
42.5°	1450.7	1453.4	1445.2	1412.4	1311.4	1201.2	1115.6	1086.4	1087.3	1014.5	905.2
45°	1508.1	1510.8	1509.9	1526.3	1486.2	1382.4	1260.4	1193.0	1189.3	1112.8	989.0
47.5°	1540.8	1542.7	1554.5	1588.2	1621.0	1597.3	1420.6	1311.4	1304.1	1204.8	1072.8
50°	1504.4	1505.3	1552.7	1632.8	1713.0	1784.9	1584.6	1428.8	1427.0	1306.8	1154.7
52.5°	1313.2	1329.6	1434.3	1601.9	1781.3	1917.9	1774.0	1567.3	1551.8	1403.3	1236.7
55°	1071.9	1079.1	1199.3	1412.4	1768.5	1999.8	1917.0	1716.6	1705.7	1510.8	1316.8
57.5°	836.9	844.2	987.2	1164.7	1573.6	1995.3	2018.0	1877.8	1853.2	1604.6	1397.0
60°	540.0	562.8	728.5	947.1	1274.0	1856.8	2069.0	2032.6	2009.8	1697.5	1465.3
62.5°	367.0	370.6	474.5	702.1	953.5	1509.0	2065.4	2128.2	2124.6	1790.4	1533.6
65°	238.6	244.1	306.9	475.4	682.1	1001.7	1974.3	2174.7	2178.3	1847.7	1578.2
66°	202.2	205.8	254.1	399.8	597.4	794.1	1894.2	2171.0	2178.3	1874.2	1591.8
67.5°	175.8	178.5	203.1	295.1	488.1	571.0	1685.6	2122.8	2143.7	1898.7	1609.1
70°	151.2	154.8	177.6	201.3	348.8	333.3	1067.3	1998.9	2019.9	1910.6	1620.1
72.5°	124.8	127.5	150.3	182.1	253.2	224.0	470.8	1711.1	1764.0	1866.9	1602.8
75°	98.4	100.2	121.1	152.1	194.0	174.8	204.9	1254.9	1321.4	1645.6	1535.4
77.5°	76.5	77.4	93.8	118.4	177.6	135.7	126.6	611.1	773.2	1271.3	1352.3
80°	52.8	54.6	69.2	89.2	130.2	107.5	84.7	238.6	303.3	844.2	1025.4
82.5°	34.6	35.5	47.4	67.4	86.5	102.9	55.6	115.7	127.5	388.9	444.4
85°	23.7	23.7	33.7	41.9	59.2	68.3	36.4	61.0	66.5	147.5	53.7
87.5°	11.8	11.8	16.4	21.9	28.2	26.4	21.9	21.9	21.9	48.3	15.5
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°	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3	374.3
2.5°	376.1	376.1	377.0	377.9	378.8	378.8	379.7	379.7	378.8	379.7	380.7
5°	384.3	385.2	387.0	389.8	394.3	398.9	403.4	406.2	408.9	409.8	408.0
7.5°	397.1	398.9	405.2	412.5	419.8	430.7	437.1	440.8	442.6	444.4	442.6
10°	413.4	417.1	426.2	438.9	451.7	465.4	472.6	478.1	479.0	480.8	479.0
12.5°	432.6	438.9	452.6	470.8	486.3	500.0	505.4	501.8	493.6	489.9	489.0
15°	455.3	461.7	480.8	503.6	521.8	528.2	520.0	508.2	499.0	498.1	497.2
17.5°	475.4	484.5	510.9	534.6	551.9	545.5	523.6	516.3	513.6	517.3	516.3
20°	500.9	508.2	534.6	563.7	572.8	548.2	532.7	528.2	525.5	525.5	523.6
22.5°	521.8	527.3	559.1	591.0	585.6	550.0	539.1	530.0	520.9	520.0	517.3
25°	546.4	548.2	581.9	616.5	587.4	551.9	532.7	517.3	508.2	505.4	506.3
27.5°	569.2	573.7	602.9	633.8	582.8	541.8	510.9	490.8	477.2	476.3	476.3
30°	598.3	598.3	624.7	652.9	572.8	516.3	475.4	446.2	435.3	434.4	432.6
32.5°	631.1	625.6	651.1	666.6	551.0	481.7	427.1	394.3	377.0	373.4	370.6
35°	676.6	664.8	683.0	669.3	529.1	432.6	366.1	328.8	316.0	310.5	310.5
37.5°	729.4	712.1	731.3	661.1	495.4	375.2	302.3	274.1	260.5	252.3	255.0
40°	791.4	769.5	780.4	652.0	459.0	311.4	249.5	232.2	215.8	204.9	204.9
42.5°	864.2	827.8	836.0	642.9	407.1	255.9	215.8	204.0	191.2	180.3	183.0
45°	934.3	898.8	890.6	633.8	352.4	218.6	202.2	194.0	182.1	169.4	169.4
47.5°	1015.4	969.9	938.9	617.4	298.7	206.7	205.8	194.0	171.2	153.0	151.2
50°	1091.9	1050.0	982.6	592.8	268.6	216.7	204.9	176.7	154.8	143.0	142.1
52.5°	1172.9	1129.2	1018.1	562.8	253.2	212.2	188.5	162.1	145.7	133.9	131.1
55°	1253.1	1230.3	1050.0	533.7	228.6	197.6	174.8	153.0	135.7	124.8	122.9
57.5°	1344.1	1335.0	1077.3	504.5	190.3	179.4	164.8	146.6	130.2	122.0	121.1
60°	1423.4	1455.2	1110.1	482.7	162.1	165.7	160.3	145.7	133.9	124.8	124.8
62.5°	1507.2	1570.9	1139.2	454.4	141.2	157.5	161.2	144.8	129.3	121.1	121.1
65°	1580.0	1689.3	1169.3	402.5	126.6	151.2	158.5	134.8	116.6	110.2	108.4
66°	1611.0	1723.0	1178.4	370.6	121.1	146.6	153.9	129.3	111.1	105.6	104.7
67.5°	1647.4	1775.8	1189.3	302.3	112.9	136.6	143.9	121.1	102.0	98.4	96.5
70°	1698.4	1786.7	1183.0	197.6	98.4	117.5	128.4	108.4	91.1	88.3	85.6
72.5°	1703.9	1712.1	1119.2	124.8	85.6	101.1	112.9	97.4	80.1	77.4	75.6
75°	1613.7	1517.2	947.1	89.2	75.6	89.2	99.3	84.7	66.5	62.8	61.0
77.5°	1377.8	1203.9	681.2	66.5	65.6	76.5	82.9	73.8	55.6	52.8	51.9
80°	967.1	816.9	341.5	50.1	51.9	63.7	69.2	61.9	46.4	42.8	41.0
82.5°	391.6	347.0	117.5	37.3	39.2	48.3	59.2	51.0	35.5	31.0	27.3
85°	44.6	75.6	51.0	25.5	26.4	32.8	40.1	31.0	20.9	17.3	14.6
87.5°	9.1	16.4	18.2	10.0	9.1	12.7	18.2	10.9	7.3	2.7	3.6
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)