

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: P594963

Luminaire Tested: **IST-PA1A-735-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594963  
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-PA1A-735-U-T4W  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3500K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3804 lumens  
Efficiency: N/A  
Efficacy: 132.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

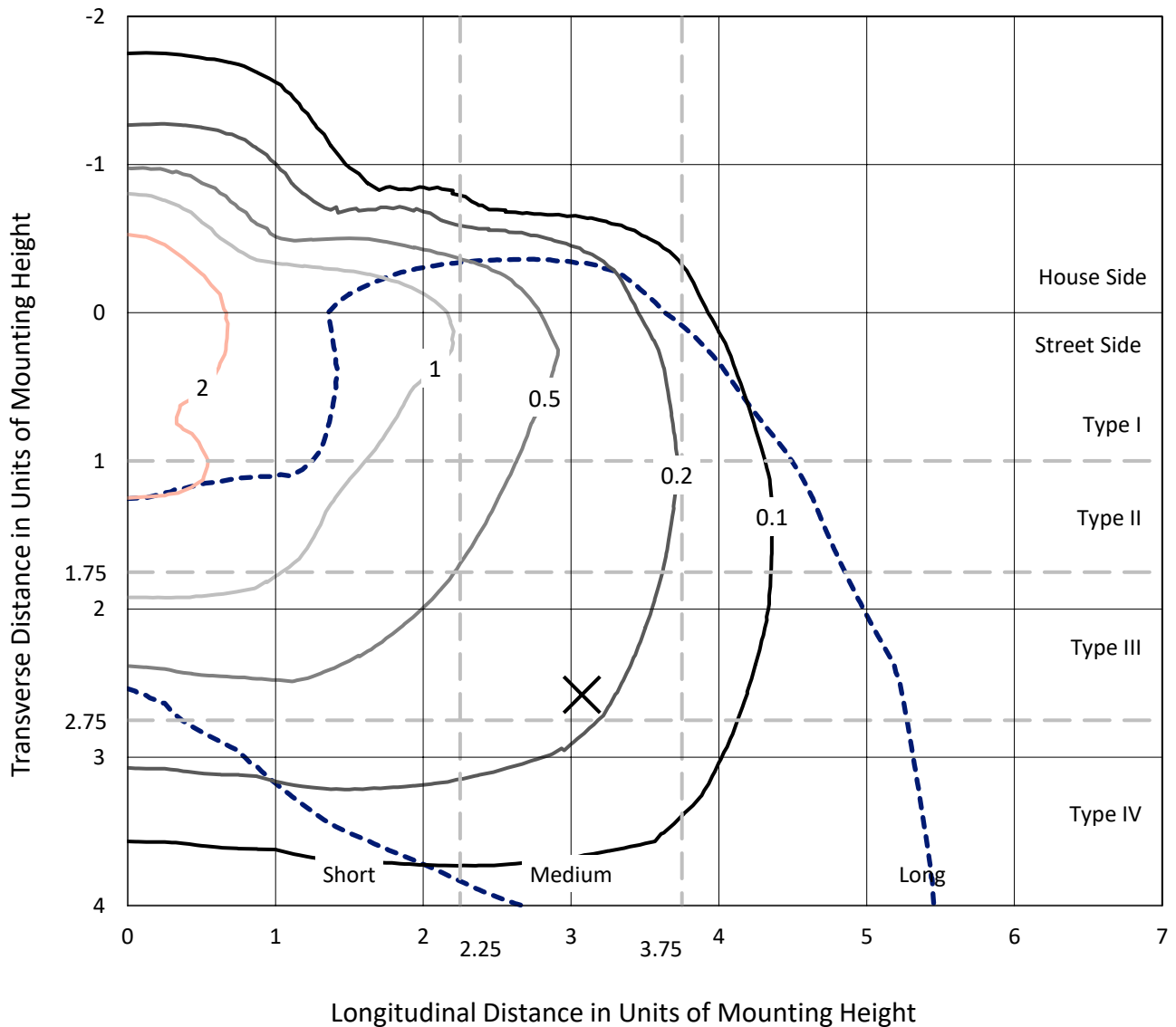
Input Watts (W): 28.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

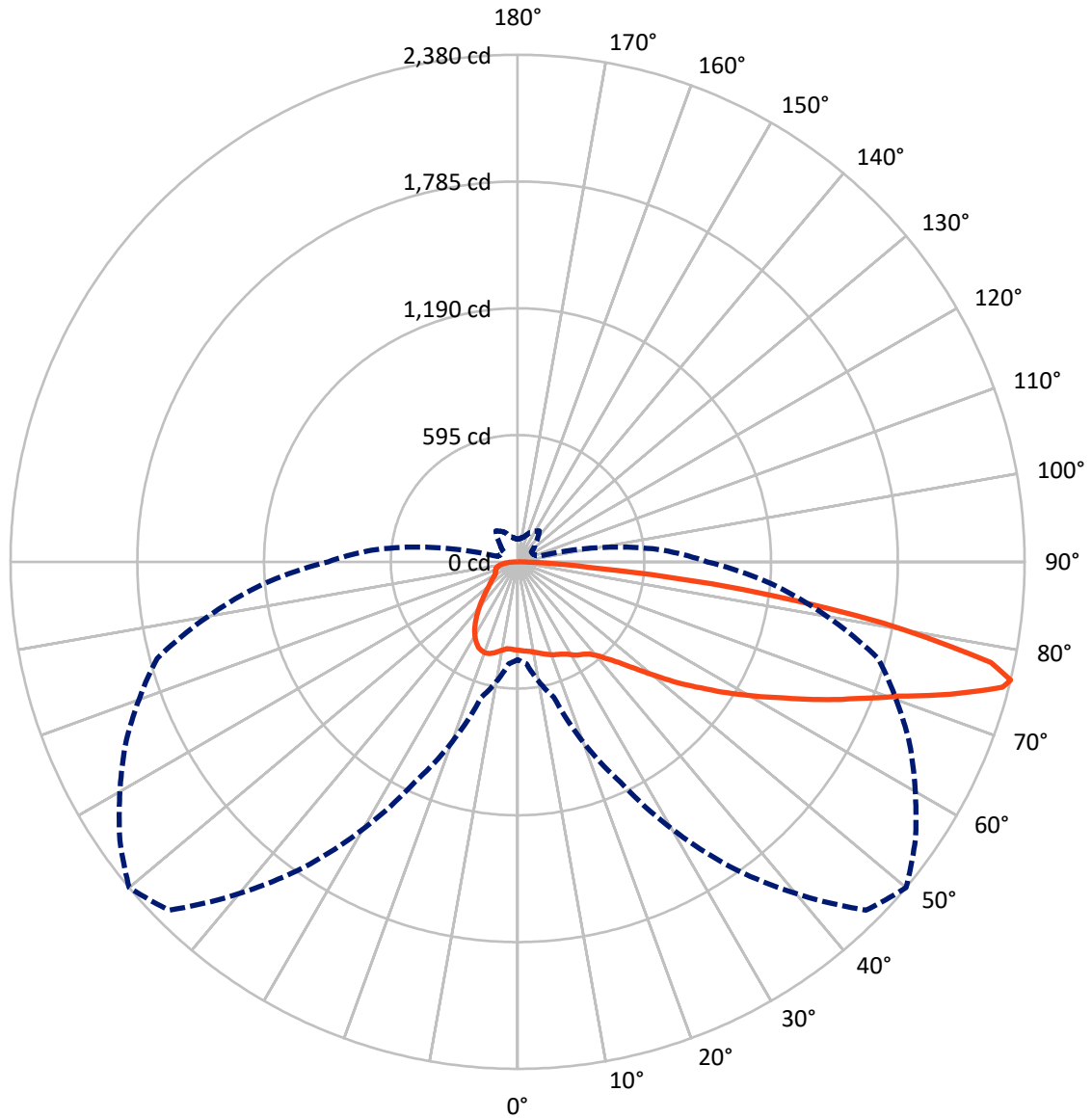
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.1 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
<b>House Side</b>	Lumens	870.2	0.0	870.2
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	2933.8	0.0	2933.8
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	3804.0	0.0	3804.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.3	1.1
10°-20°	126.6	3.3
20°-30°	213.8	5.6
30°-40°	293.1	7.7
40°-50°	431.7	11.3
50°-60°	679.0	17.9
60°-70°	977.4	25.7
70°-80°	888.7	23.4
80°-90°	153.4	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°	3804.0	100.0
0°-180°	3804.0	100.0

**Coefficient of Utilization**

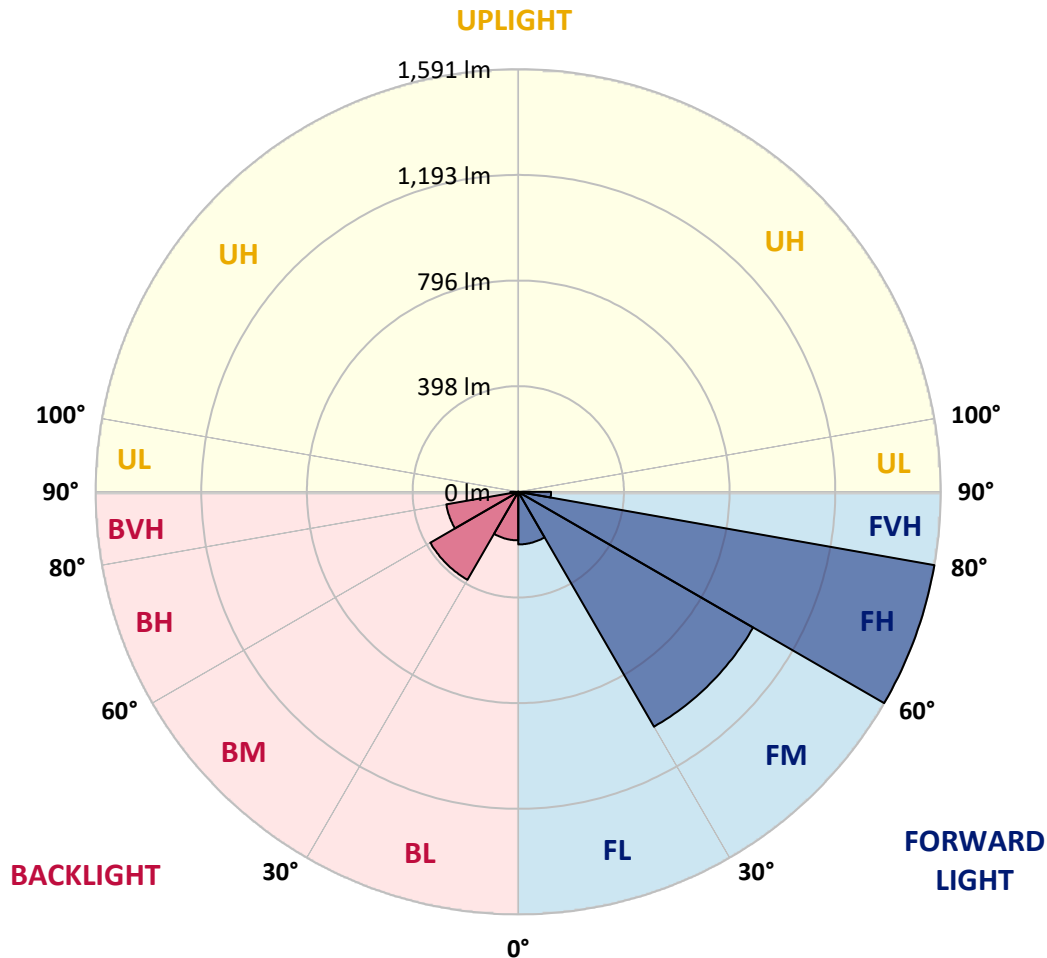


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	198.0	5.2			
FM (30°-60°)	1021.3	26.8			
FH (60°-80°)	1591.0	41.8			G1/1800
FVH (80°-90°)	123.5	3.2			G2/225
BL (0°-30°)	182.7	4.8	B1/500		
BM (30°-60°)	382.5	10.1	B1/1000		
BH (60°-80°)	275.1	7.2	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-G2**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	414.6	414.6	414.6	414.6	414.6	414.6	414.6	414.6	414.6	414.6	414.6
2.5°	423.9	423.9	424.9	423.0	423.0	418.4	418.4	417.4	415.6	414.6	412.8
5°	439.8	439.8	437.0	432.3	429.5	423.9	421.1	419.3	415.6	410.9	406.2
7.5°	456.6	454.7	452.8	445.4	439.8	429.5	424.9	422.1	414.6	408.1	405.3
10°	474.3	471.5	466.8	457.5	449.1	437.0	431.4	427.7	419.3	413.7	407.2
12.5°	484.5	484.5	478.9	467.7	456.6	441.6	438.9	434.2	425.8	418.4	411.8
15°	494.8	495.7	490.1	477.1	464.0	452.8	448.2	445.4	436.1	424.9	416.5
17.5°	505.0	504.1	498.5	483.6	469.6	459.4	456.6	452.8	443.5	433.3	424.9
20°	512.5	510.6	508.7	490.1	476.1	469.6	465.9	463.1	453.8	442.6	431.4
22.5°	514.3	516.2	514.3	492.0	480.8	473.3	472.4	469.6	462.1	451.9	440.7
25°	515.3	516.2	519.0	497.6	487.3	481.7	479.8	478.0	472.4	464.0	449.1
27.5°	519.9	520.8	520.8	501.3	495.7	492.0	490.1	490.1	487.3	477.1	462.1
30°	520.8	521.8	523.6	510.6	508.7	505.9	506.9	505.9	501.3	490.1	473.3
32.5°	527.4	528.3	533.0	516.2	518.1	520.8	521.8	520.8	511.5	502.2	488.2
35°	548.8	547.9	551.6	530.2	528.3	529.2	532.0	531.1	527.4	519.0	509.7
37.5°	617.7	617.7	607.5	562.8	548.8	546.9	548.8	553.5	554.4	546.9	539.5
40°	738.9	732.4	726.8	629.9	585.1	574.0	579.5	582.3	589.8	589.8	589.8
42.5°	863.7	864.7	862.8	734.2	650.4	622.4	623.3	629.9	645.7	648.5	656.9
45°	974.6	981.1	995.1	855.3	746.3	683.9	677.4	683.9	706.3	724.9	746.3
47.5°	1061.3	1053.8	1084.6	982.1	856.3	767.8	751.0	752.9	783.6	813.4	847.0
50°	1135.8	1137.7	1151.6	1111.6	995.1	862.8	840.4	836.7	880.5	912.2	969.0
52.5°	1219.7	1214.1	1234.6	1225.2	1130.2	979.3	943.9	932.7	980.2	1024.9	1086.4
55°	1259.7	1265.3	1307.2	1330.5	1257.9	1083.6	1044.5	1048.2	1098.5	1146.0	1231.8
57.5°	1330.5	1336.1	1384.6	1433.0	1371.5	1194.5	1160.0	1160.0	1216.9	1270.0	1402.3
60°	1427.4	1428.4	1477.8	1561.6	1471.2	1301.7	1279.3	1278.4	1339.9	1401.3	1603.5
62.5°	1470.3	1481.5	1555.1	1664.1	1601.7	1433.0	1406.9	1414.4	1469.4	1541.1	1828.1
65°	1412.5	1436.8	1590.5	1733.0	1718.1	1570.0	1559.7	1570.0	1603.5	1680.9	2065.7
67.5°	1221.5	1254.1	1525.3	1779.6	1811.3	1728.4	1713.5	1711.6	1733.0	1819.7	2215.7
70°	1122.8	1142.3	1352.9	1797.3	1885.9	1888.7	1888.7	1876.5	1873.7	1937.1	2229.7
72.5°	924.3	944.8	1141.4	1698.6	1956.7	2103.0	2124.4	2079.7	2010.7	1997.7	1995.8
75°	658.7	673.7	843.2	1336.1	1866.3	2308.9	2351.7	2265.1	2073.1	1865.4	1455.4
76°	459.4	480.8	658.7	1141.4	1752.6	2312.6	2379.7	2279.1	2031.2	1751.7	1199.2
77.5°	232.9	240.4	381.1	766.8	1466.6	2206.4	2271.6	2158.9	1848.6	1415.3	761.2
80°	88.5	91.3	136.0	279.5	805.0	1713.5	1738.6	1586.8	1223.4	604.7	273.9
82.5°	46.6	48.5	76.4	137.9	330.8	942.0	1063.1	885.2	479.8	181.7	80.1
85°	23.3	25.2	44.7	83.9	164.0	294.4	341.0	322.4	159.3	68.9	29.8
87.5°	9.3	11.2	22.4	37.3	66.2	57.8	64.3	82.9	51.2	32.6	10.2
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°	414.6	414.6	414.6	414.6	414.6	414.6	414.6	414.6	414.6	414.6	414.6
2.5°	412.8	411.8	412.8	411.8	412.8	412.8	413.7	411.8	411.8	413.7	410.9
5°	406.2	405.3	406.2	408.1	409.0	410.9	414.6	413.7	415.6	417.4	418.4
7.5°	403.4	402.5	405.3	406.2	409.0	412.8	418.4	422.1	423.9	427.7	425.8
10°	406.2	406.2	410.0	412.8	417.4	422.1	426.7	430.5	435.1	437.9	437.0
12.5°	410.9	410.0	416.5	420.2	426.7	431.4	435.1	437.0	440.7	444.4	443.5
15°	415.6	416.5	425.8	433.3	440.7	442.6	443.5	441.6	443.5	445.4	445.4
17.5°	424.9	425.8	436.1	444.4	451.0	449.1	444.4	439.8	439.8	440.7	441.6
20°	432.3	434.2	446.3	453.8	457.5	450.0	442.6	437.0	434.2	435.1	434.2
22.5°	440.7	444.4	456.6	460.3	454.7	445.4	436.1	428.6	428.6	429.5	429.5
25°	451.0	452.8	461.2	459.4	449.1	435.1	427.7	424.9	423.9	424.9	425.8
27.5°	460.3	461.2	465.9	452.8	433.3	418.4	415.6	416.5	417.4	418.4	419.3
30°	472.4	474.3	469.6	443.5	413.7	396.9	396.9	402.5	404.4	407.2	406.2
32.5°	487.3	489.2	475.2	431.4	388.5	371.8	372.7	381.1	386.7	388.5	389.5
35°	512.5	508.7	478.9	414.6	361.5	341.0	342.0	352.2	359.7	362.4	360.6
37.5°	543.2	542.3	484.5	393.2	328.0	309.3	310.3	314.9	322.4	323.3	324.2
40°	594.5	587.0	493.8	365.2	294.4	276.7	274.9	277.7	276.7	278.6	279.5
42.5°	668.1	648.5	505.9	333.6	264.6	246.0	244.1	239.5	233.9	228.3	225.5
45°	754.7	724.0	520.8	301.0	233.9	217.1	212.4	206.8	195.7	183.6	179.8
47.5°	866.5	807.8	537.6	268.3	205.0	191.9	188.2	179.8	166.8	152.8	150.0
50°	981.1	906.6	554.4	241.3	181.7	174.2	170.5	162.1	145.4	132.3	129.5
52.5°	1114.4	1004.4	572.1	217.1	161.2	161.2	158.4	145.4	129.5	117.4	115.5
55°	1268.1	1105.1	600.0	193.8	146.3	150.0	146.3	133.2	118.3	109.9	109.0
57.5°	1451.7	1232.7	635.5	168.6	133.2	136.0	136.0	126.7	116.5	110.9	109.9
60°	1636.1	1362.2	657.8	150.0	123.0	125.8	131.4	126.7	120.2	117.4	116.5
62.5°	1813.2	1494.5	619.6	134.2	112.7	121.1	135.1	136.0	129.5	130.4	130.4
65°	1945.5	1595.2	501.3	120.2	106.2	123.9	146.3	147.2	136.0	133.2	132.3
67.5°	1991.1	1623.1	337.3	110.9	102.5	125.8	159.3	155.6	136.0	130.4	127.6
70°	1904.5	1520.6	219.0	102.5	96.9	123.9	169.6	160.3	135.1	126.7	123.0
72.5°	1597.0	1297.0	146.3	95.0	91.3	122.1	176.1	160.3	132.3	120.2	116.5
75°	1108.8	886.1	109.0	85.7	82.9	119.3	178.0	157.5	125.8	112.7	109.9
76°	889.8	664.3	98.8	82.0	79.2	117.4	177.0	154.7	121.1	109.0	106.2
77.5°	561.8	382.0	82.9	75.5	73.6	113.7	173.3	148.1	114.6	102.5	99.7
80°	196.6	139.8	63.4	61.5	62.4	105.3	163.1	135.1	101.6	90.4	86.7
82.5°	78.3	64.3	47.5	47.5	49.4	90.4	147.2	119.3	88.5	74.5	68.9
85°	30.7	28.0	33.5	33.5	35.4	73.6	123.0	93.2	60.6	46.6	44.7
87.5°	9.3	13.0	14.9	15.8	16.8	37.3	69.9	41.0	27.0	19.6	15.8
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)