

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: P595051

Luminaire Tested: **IST-PA1B-735-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1B-735-U-T3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4767 lumens
Efficiency: N/A
Efficacy: 131.0 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

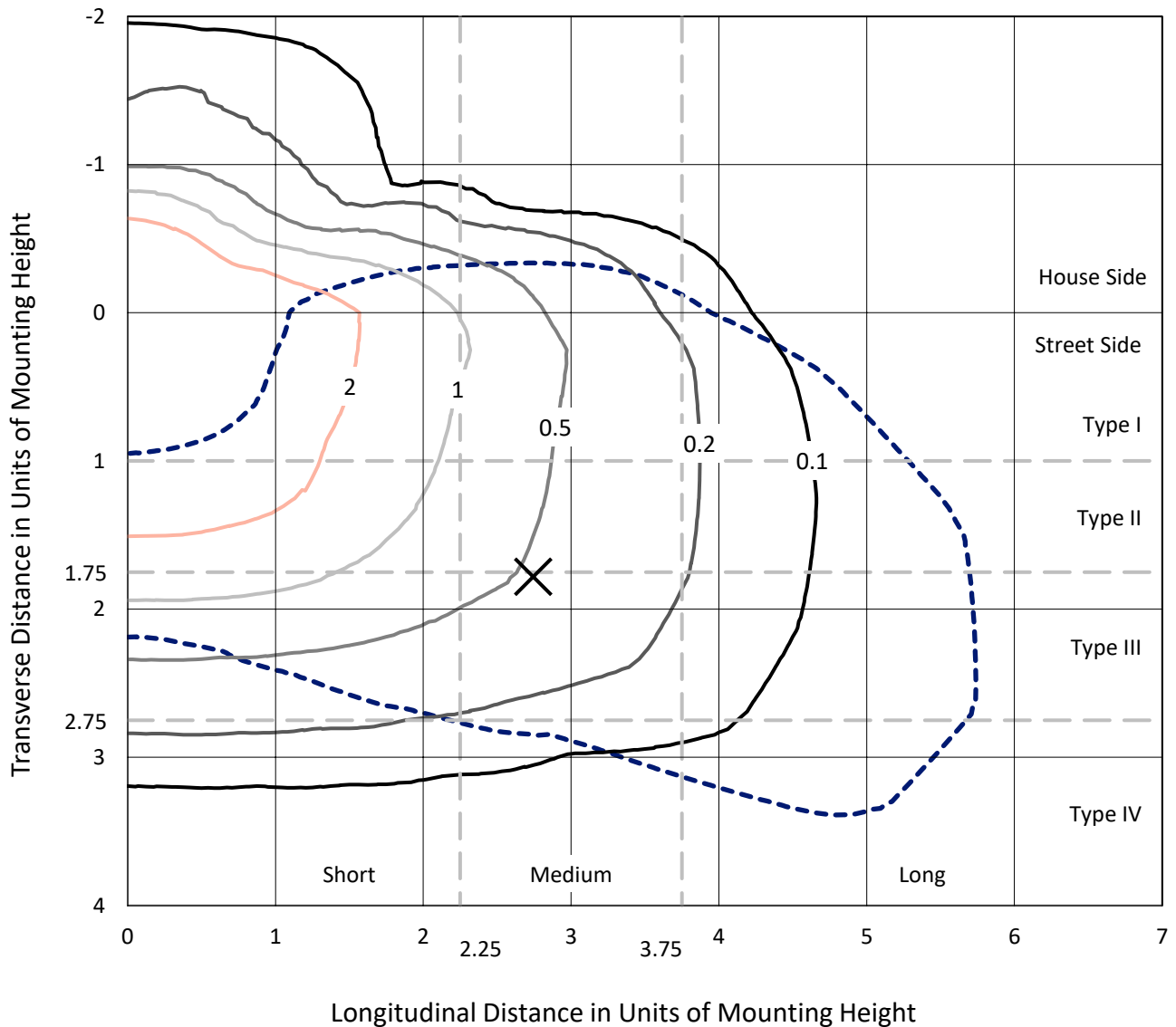
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

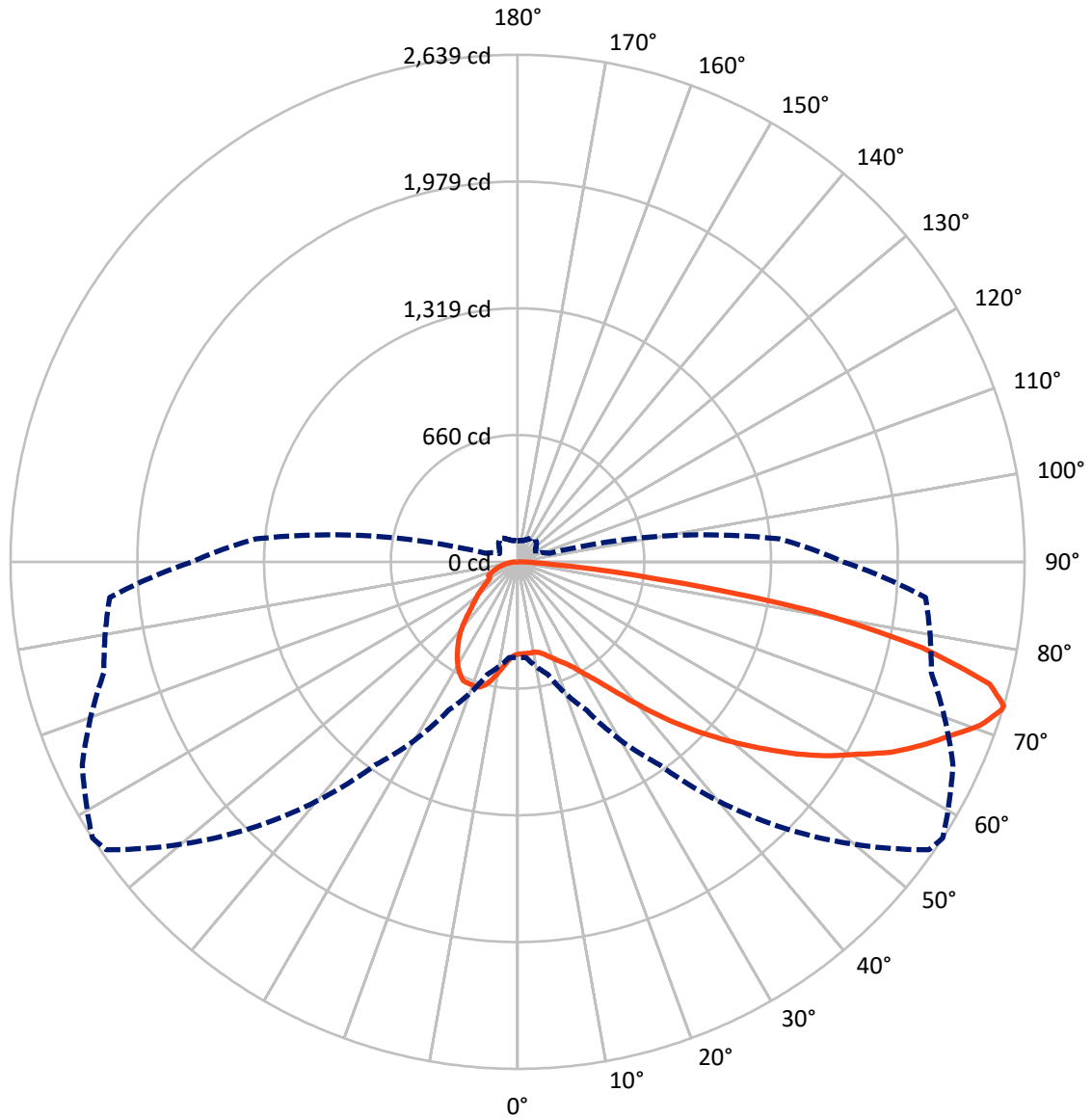
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1137.2	0.0	1137.2
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	3629.8	0.0	3629.8
	% Fixture	76.1	0.0	76.1
Total	Lumens	4767.0	0.0	4767.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	1.0
10°-20°	157.7	3.3
20°-30°	291.1	6.1
30°-40°	449.5	9.4
40°-50°	676.7	14.2
50°-60°	990.4	20.8
60°-70°	1169.6	24.5
70°-80°	837.3	17.6
80°-90°	146.7	3.1
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°	4767.0	100.0
0°-180°	4767.0	100.0

Coefficient of Utilization

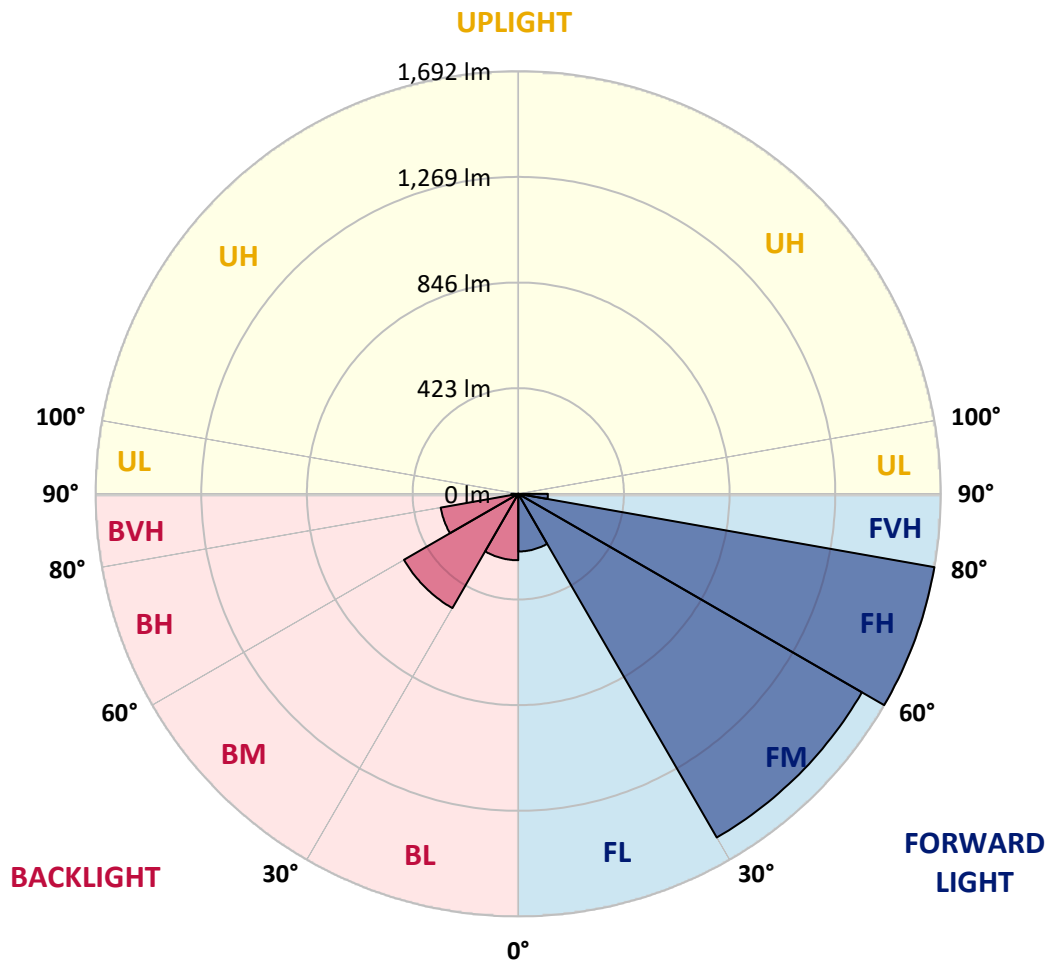


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	231.0	4.8			
FM (30°-60°)	1588.5	33.3			
FH (60°-80°)	1691.6	35.5			G1/1800
FVH (80°-90°)	118.7	2.5			G2/225
BL (0°-30°)	265.8	5.6	B1/500		
BM (30°-60°)	528.1	11.1	B1/1000		
BH (60°-80°)	315.3	6.6	B1/500		G1/500
BVH (80°-90°)	28.0	0.6			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°	55°	57°	65°	75°	85°
0°	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3
2.5°	474.4	476.8	475.6	476.8	480.3	477.9	477.9	479.1	480.3	479.1	481.4
5°	454.6	455.7	458.1	462.7	470.9	473.3	479.1	479.1	481.4	483.8	487.3
7.5°	421.8	424.2	428.9	433.5	447.6	461.6	476.8	479.1	487.3	493.1	495.5
10°	416.0	418.3	419.5	426.5	440.5	454.6	473.3	477.9	493.1	502.5	513.0
12.5°	410.2	412.5	416.0	425.4	442.9	458.1	477.9	482.6	501.3	520.0	532.9
15°	414.8	416.0	419.5	428.9	446.4	467.4	493.1	496.6	517.7	541.0	560.9
17.5°	426.5	427.7	426.5	434.7	451.1	475.6	510.7	516.5	542.2	565.6	585.4
20°	453.4	454.6	449.9	449.9	461.6	486.1	529.4	537.5	569.1	594.8	614.7
22.5°	511.8	509.5	497.8	482.6	482.6	502.5	550.4	562.1	601.8	622.8	640.4
25°	594.8	594.8	576.1	548.1	529.4	527.0	574.9	587.8	634.5	660.2	670.8
27.5°	695.3	696.5	666.1	628.7	592.5	574.9	610.0	622.8	675.4	702.3	705.8
30°	784.1	785.3	754.9	719.8	675.4	636.9	656.7	670.8	731.5	752.6	740.9
32.5°	872.9	874.1	853.0	805.1	758.4	710.5	716.3	724.5	786.4	806.3	787.6
35°	950.0	953.5	932.5	896.3	847.2	804.0	793.5	794.6	850.7	863.6	839.0
37.5°	1028.3	1028.3	1015.5	981.6	939.5	891.6	877.6	881.1	931.3	944.2	909.1
40°	1127.7	1132.3	1125.3	1083.3	1035.3	995.6	981.6	986.3	1041.2	1034.2	996.8
42.5°	1248.0	1258.5	1246.9	1201.3	1149.9	1105.5	1105.5	1105.5	1152.2	1153.4	1097.3
45°	1402.3	1402.3	1390.6	1350.9	1283.1	1238.7	1223.5	1227.0	1267.9	1272.6	1207.1
47.5°	1530.8	1542.5	1529.6	1500.4	1446.7	1404.6	1356.7	1350.9	1384.7	1384.7	1328.7
50°	1634.8	1655.8	1645.3	1658.2	1619.6	1598.6	1500.4	1484.1	1495.8	1507.4	1445.5
52.5°	1721.3	1737.6	1734.1	1771.5	1790.2	1801.9	1646.5	1620.8	1630.1	1629.0	1572.9
55°	1727.1	1733.0	1785.6	1869.7	1943.3	1998.2	1793.7	1765.7	1756.3	1751.7	1708.4
57.5°	1693.2	1696.7	1801.9	1901.2	2061.3	2124.4	1932.8	1904.7	1891.9	1875.5	1858.0
60°	1611.4	1629.0	1766.9	1919.9	2131.4	2222.6	2062.5	2033.3	2023.9	1988.9	2028.6
62.5°	1507.4	1515.6	1653.5	1881.4	2140.8	2264.7	2199.2	2181.7	2152.5	2102.2	2180.5
65°	1360.2	1359.0	1480.6	1768.0	2092.9	2285.7	2314.9	2305.6	2269.3	2182.9	2316.1
67.5°	1117.1	1144.0	1263.2	1567.0	1977.2	2306.7	2432.9	2421.3	2364.0	2255.3	2380.4
70°	851.9	868.2	1003.8	1265.5	1747.0	2249.5	2548.6	2552.1	2448.1	2270.5	2352.3
72.5°	543.4	571.4	678.9	922.0	1398.8	2036.8	2617.6	2633.9	2494.9	2249.5	2178.2
73°	497.8	500.1	605.3	853.0	1290.1	1960.8	2612.9	2638.6	2499.5	2228.4	2130.3
75°	296.8	309.7	372.8	566.8	920.8	1575.2	2486.7	2538.1	2475.0	2135.0	1867.4
77.5°	139.1	148.4	183.5	299.2	501.3	947.7	2090.6	2151.3	2193.4	1868.5	1423.3
80°	73.6	74.8	90.0	150.7	268.8	390.3	1457.2	1557.7	1617.3	1406.9	957.0
82.5°	61.9	61.9	70.1	97.0	171.8	151.9	600.6	715.2	876.4	693.0	376.3
85°	50.2	51.4	70.1	72.5	122.7	78.3	143.7	180.0	340.1	306.2	42.1
87.5°	16.4	18.7	39.7	51.4	65.4	30.4	36.2	39.7	39.7	58.4	14.0
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°	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.3
2.5°	482.6	482.6	483.8	485.0	487.3	487.3	489.6	490.8	493.1	494.3	490.8
5°	487.3	489.6	492.0	499.0	507.2	514.2	521.2	527.0	532.9	536.4	535.2
7.5°	500.1	503.6	513.0	525.9	542.2	552.7	563.2	573.8	578.4	580.8	580.8
10°	517.7	524.7	542.2	563.2	581.9	598.3	606.5	613.5	615.8	618.2	615.8
12.5°	542.2	551.6	578.4	605.3	626.3	634.5	633.4	624.0	611.2	608.8	606.5
15°	573.8	585.4	615.8	647.4	663.7	653.2	626.3	617.0	614.7	621.7	619.3
17.5°	600.6	614.7	652.1	684.8	681.3	645.0	636.9	641.5	639.2	640.4	640.4
20°	626.3	646.2	685.9	708.1	677.8	654.4	647.4	641.5	634.5	636.9	634.5
22.5°	659.1	673.1	718.7	719.8	673.1	654.4	639.2	627.5	625.2	626.3	627.5
25°	684.8	707.0	746.7	711.7	673.1	635.7	614.7	612.3	613.5	620.5	618.2
27.5°	719.8	742.0	768.9	707.0	645.0	605.3	597.1	596.0	587.8	590.1	590.1
30°	752.6	779.4	780.6	707.0	610.0	579.6	567.9	546.9	529.4	532.9	531.7
32.5°	797.0	820.3	782.9	678.9	570.3	545.7	514.2	481.4	473.3	477.9	479.1
35°	848.4	867.1	785.3	632.2	530.5	497.8	440.5	421.8	420.7	424.2	427.7
37.5°	916.1	926.7	802.8	578.4	492.0	423.0	378.6	373.9	363.4	356.4	357.6
40°	999.1	986.3	836.7	530.5	446.4	355.2	336.5	323.7	303.8	284.0	287.5
42.5°	1091.4	1055.2	847.2	492.0	384.5	313.2	295.6	275.8	251.2	230.2	229.0
45°	1190.8	1132.3	837.9	461.6	322.5	281.6	262.9	239.6	210.3	192.8	192.8
47.5°	1308.8	1206.0	808.6	437.0	279.3	253.6	230.2	206.8	187.0	170.6	170.6
50°	1438.5	1291.3	787.6	393.8	248.9	226.7	203.3	184.6	169.4	156.6	156.6
52.5°	1575.2	1371.9	770.1	330.7	222.0	202.2	185.8	170.6	157.8	141.4	139.1
55°	1714.3	1449.0	778.3	269.9	197.5	184.6	174.1	158.9	154.2	150.7	148.4
57.5°	1859.2	1533.1	798.1	220.9	176.5	175.3	170.6	181.1	191.6	184.6	181.1
60°	1972.5	1598.6	800.5	185.8	163.6	184.6	208.0	211.5	183.5	167.1	165.9
62.5°	2062.5	1660.5	745.5	161.3	167.1	217.4	222.0	187.0	158.9	151.9	151.9
65°	2109.2	1682.7	599.5	147.2	174.1	208.0	201.0	168.3	148.4	147.2	147.2
67.5°	2085.9	1665.2	419.5	132.0	154.2	180.0	180.0	154.2	136.7	142.6	140.2
70°	1973.7	1578.7	276.9	119.2	135.6	162.4	167.1	143.7	127.4	130.9	127.4
72.5°	1740.0	1424.5	182.3	105.2	116.9	143.7	155.4	132.0	116.9	115.7	112.2
73°	1694.4	1366.0	171.8	102.8	113.4	139.1	151.9	129.7	114.5	111.0	108.7
75°	1437.3	1139.3	129.7	92.3	100.5	125.0	141.4	121.5	105.2	100.5	98.2
77.5°	1047.0	789.9	97.0	78.3	84.1	108.7	125.0	111.0	93.5	87.6	86.5
80°	653.2	430.0	72.5	63.1	66.6	91.1	109.8	99.3	80.6	73.6	72.5
82.5°	255.9	140.2	50.2	46.7	49.1	68.9	92.3	86.5	67.8	61.9	58.4
85°	42.1	47.9	32.7	31.6	31.6	49.1	70.1	66.6	45.6	39.7	35.1
87.5°	11.7	22.2	12.9	11.7	11.7	21.0	38.6	30.4	18.7	15.2	14.0
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)