

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: P594959

Luminaire Tested: **IST-PA1A-735-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594959
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-735-U-T2U
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 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: 3841 lumens
Efficiency: N/A
Efficacy: 133.4 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

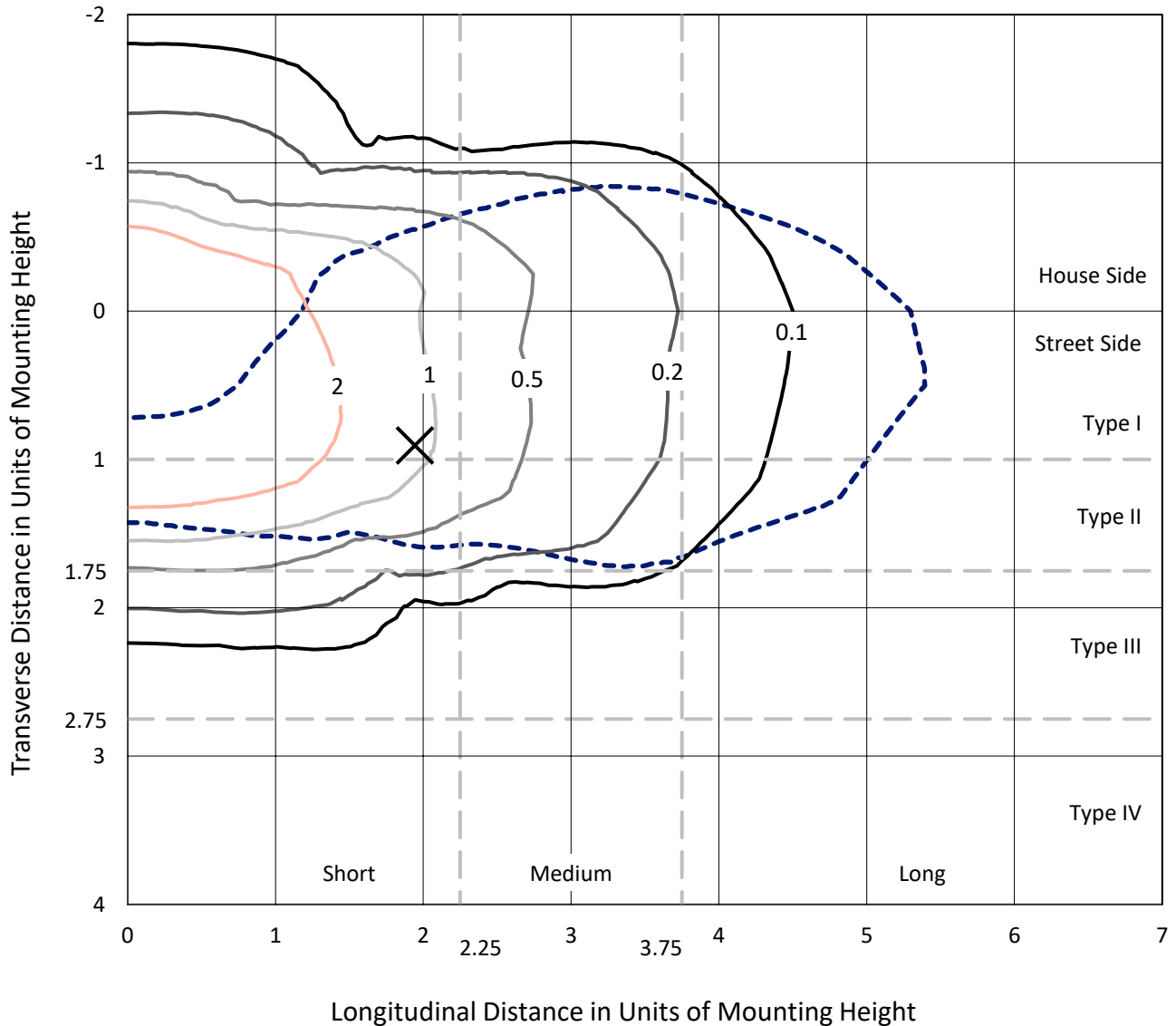
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P594959
 CATALOG NUMBER: IST-PA1A-735-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

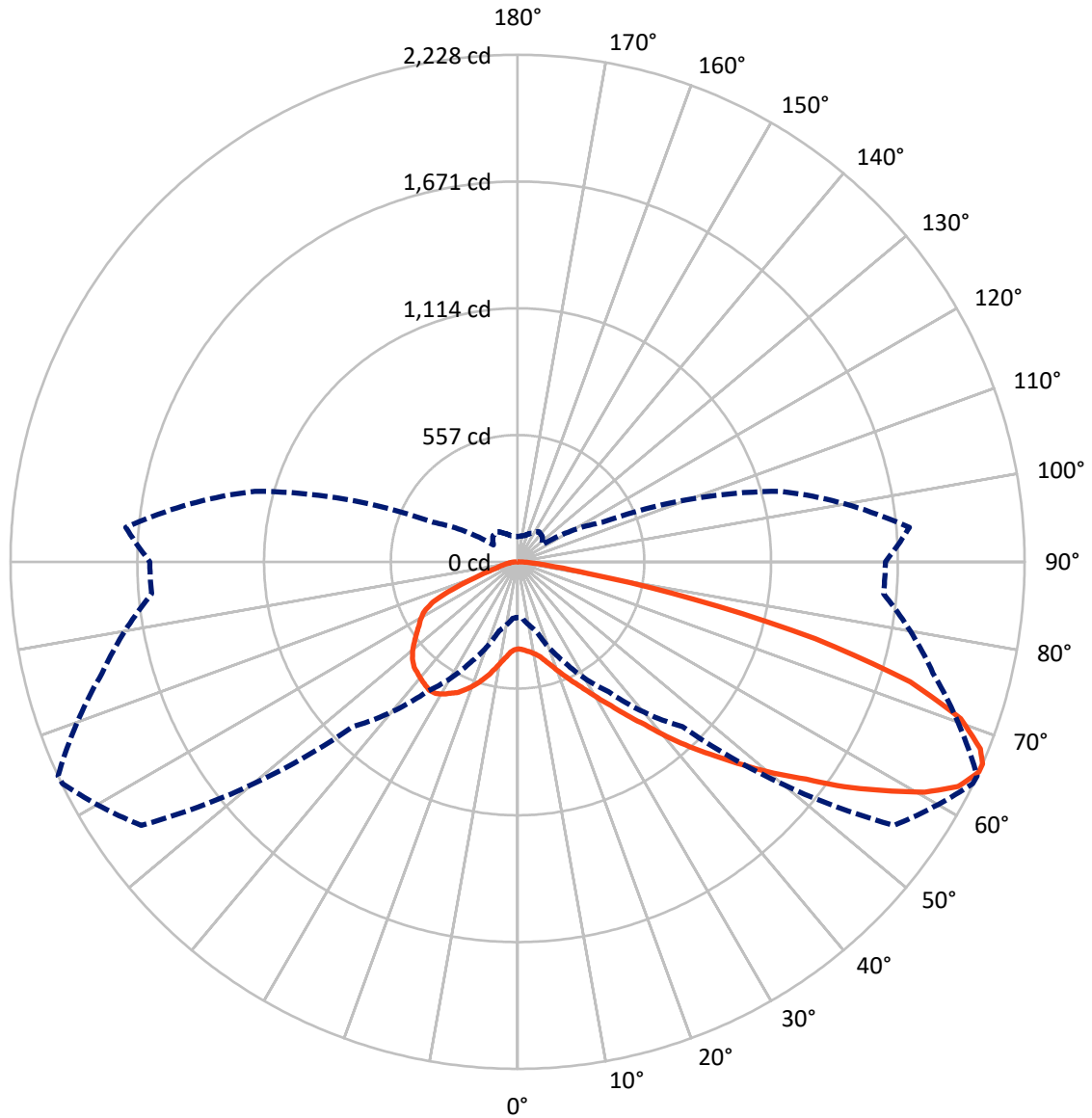
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

REPORT NUMBER: P594959
CATALOG NUMBER: IST-PA1A-735-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P594959
 CATALOG NUMBER: IST-PA1A-735-U-T2U

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1166.3	0.0	1166.3
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	2674.7	0.0	2674.7
	% Fixture	69.6	0.0	69.6
Total	Lumens	3841.0	0.0	3841.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	1.0
10°-20°	136.1	3.5
20°-30°	266.6	6.9
30°-40°	435.6	11.3
40°-50°	691.5	18.0
50°-60°	889.3	23.2
60°-70°	802.0	20.9
70°-80°	497.4	13.0
80°-90°	83.3	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°	3841.0	100.0
0°-180°	3841.0	100.0

Coefficient of Utilization

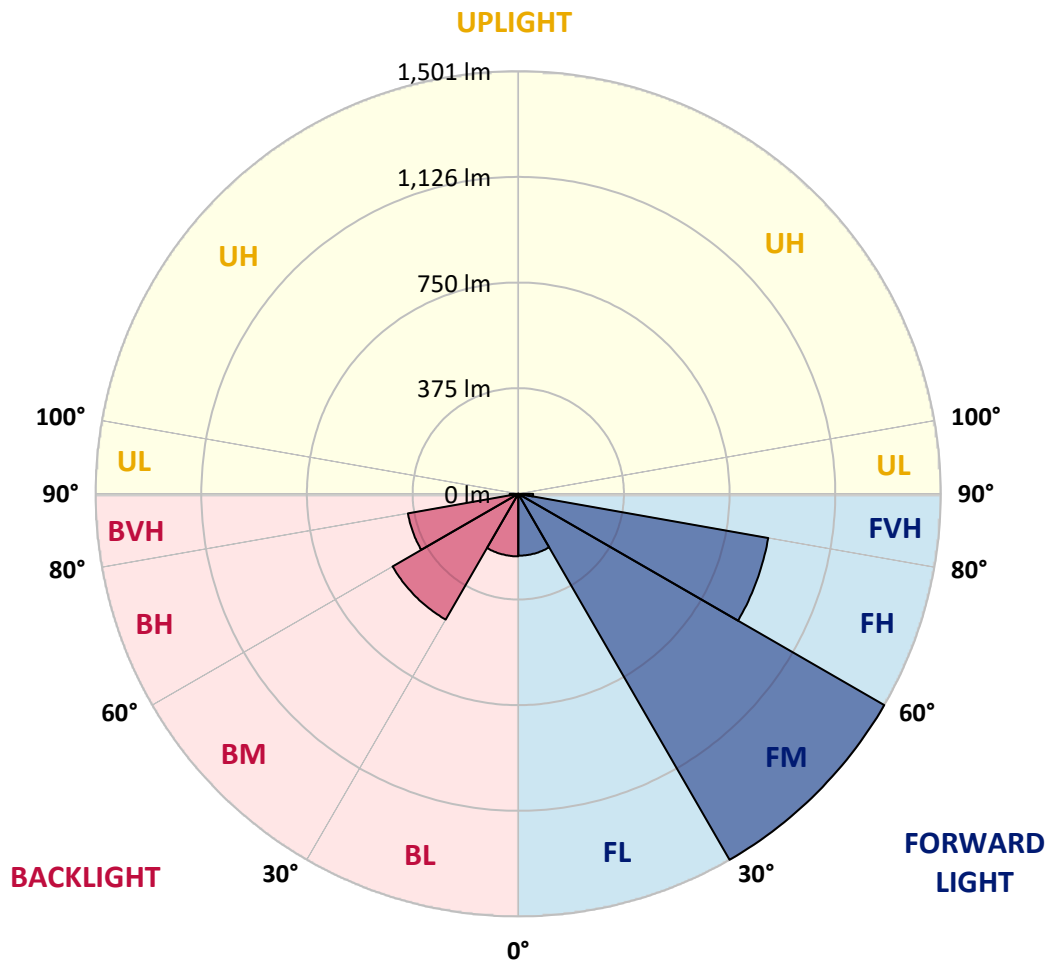


REPORT NUMBER: P594959
 CATALOG NUMBER: IST-PA1A-735-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	219.7	5.7			
FM (30°-60°)	1500.9	39.1			
FH (60°-80°)	901.5	23.5			G1/1800
FVH (80°-90°)	52.7	1.4			G1/100
BL (0°-30°)	222.1	5.8	B1/500		
BM (30°-60°)	515.6	13.4	B1/1000		
BH (60°-80°)	397.9	10.4	B1/500		G1/500
BVH (80°-90°)	30.6	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





REPORT NUMBER: P594959
 CATALOG NUMBER: IST-PA1A-735-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9
2.5°	383.8	384.7	385.7	383.8	385.7	386.6	384.7	384.7	385.7	383.8	383.8
5°	381.0	381.9	383.8	384.7	388.4	390.3	391.2	391.2	392.2	391.2	392.2
7.5°	373.5	373.5	377.3	379.1	384.7	391.2	395.0	400.6	400.6	401.5	404.3
10°	381.0	381.0	383.8	386.6	391.2	396.8	402.4	408.9	410.8	417.3	421.0
12.5°	392.2	394.0	397.8	401.5	407.1	413.6	418.3	424.8	425.7	432.2	439.7
15°	410.8	412.7	414.5	419.2	426.6	435.0	443.4	448.1	449.9	453.7	459.2
17.5°	438.7	440.6	441.5	444.3	449.9	461.1	473.2	476.9	478.8	478.8	483.5
20°	486.3	485.3	483.5	477.9	477.9	488.1	504.9	511.4	513.3	509.5	506.7
22.5°	541.2	540.3	532.8	526.3	521.7	523.5	540.3	551.5	550.5	543.1	531.9
25°	612.9	614.8	602.7	585.9	572.0	568.2	578.5	589.7	591.5	577.5	558.9
27.5°	698.6	695.8	689.3	662.3	635.3	618.5	624.1	636.2	637.2	622.3	592.4
30°	799.2	794.6	777.8	749.9	708.0	684.7	680.0	690.3	693.1	667.9	625.1
32.5°	911.0	906.4	884.9	842.1	796.5	757.3	742.4	756.4	754.5	725.7	666.0
35°	1046.1	1045.2	1006.0	952.9	895.2	843.0	822.5	822.5	828.1	785.3	718.2
37.5°	1226.8	1234.3	1176.5	1093.6	1012.6	942.7	908.2	906.4	907.3	860.7	776.9
40°	1389.8	1387.0	1353.5	1276.2	1157.9	1068.5	1017.2	1006.0	1008.8	949.2	853.3
42.5°	1483.9	1486.7	1478.3	1444.8	1341.4	1228.7	1141.1	1111.3	1112.2	1037.7	925.9
45°	1542.6	1545.4	1544.5	1561.2	1520.2	1414.1	1289.2	1220.3	1216.6	1138.3	1011.6
47.5°	1576.1	1578.0	1590.1	1624.6	1658.1	1633.9	1453.2	1341.4	1333.9	1232.4	1097.3
50°	1538.9	1539.8	1588.2	1670.2	1752.2	1825.8	1620.9	1461.6	1459.7	1336.7	1181.2
52.5°	1343.3	1360.0	1467.1	1638.6	1822.1	1961.8	1814.6	1603.2	1587.3	1435.5	1265.0
55°	1096.4	1103.9	1226.8	1444.8	1809.0	2045.6	1960.9	1755.9	1744.7	1545.4	1347.0
57.5°	856.1	863.5	1009.8	1191.4	1609.7	2041.0	2064.3	1920.8	1895.7	1641.3	1429.0
60°	552.4	575.7	745.2	968.8	1303.2	1899.4	2116.4	2079.2	2055.9	1736.4	1498.8
62.5°	375.4	379.1	485.3	718.2	975.3	1543.5	2112.7	2177.0	2173.2	1831.4	1568.7
65°	244.1	249.6	313.9	486.3	697.7	1024.7	2019.5	2224.5	2228.2	1890.1	1614.3
66°	206.8	210.5	259.9	408.9	611.1	812.3	1937.6	2220.8	2228.2	1917.1	1628.3
67.5°	179.8	182.6	207.7	301.8	499.3	584.1	1724.3	2171.4	2192.8	1942.2	1646.0
70°	154.6	158.4	181.6	205.9	356.8	340.9	1091.7	2044.7	2066.1	1954.3	1657.2
72.5°	127.6	130.4	153.7	186.3	259.0	229.2	481.6	1750.3	1804.4	1909.6	1639.5
75°	100.6	102.5	123.9	155.6	198.4	178.9	209.6	1283.6	1351.6	1683.3	1570.5
77.5°	78.2	79.2	95.9	121.1	181.6	138.8	129.5	625.1	790.9	1300.4	1383.3
80°	54.0	55.9	70.8	91.3	133.2	109.9	86.6	244.1	310.2	863.5	1048.9
82.5°	35.4	36.3	48.4	68.9	88.5	105.3	56.8	118.3	130.4	397.8	454.6
85°	24.2	24.2	34.5	42.9	60.5	69.9	37.3	62.4	68.0	150.9	55.0
87.5°	12.1	12.1	16.8	22.4	28.9	27.0	22.4	22.4	22.4	49.4	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



REPORT NUMBER: P594959
 CATALOG NUMBER: IST-PA1A-735-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9
2.5°	384.7	384.7	385.7	386.6	387.5	387.5	388.4	388.4	387.5	388.4	389.4
5°	393.1	394.0	395.9	398.7	403.3	408.0	412.7	415.5	418.3	419.2	417.3
7.5°	406.1	408.0	414.5	422.0	429.4	440.6	447.1	450.9	452.7	454.6	452.7
10°	422.9	426.6	436.0	449.0	462.0	476.0	483.5	489.0	490.0	491.8	490.0
12.5°	442.5	449.0	463.0	481.6	497.4	511.4	517.0	513.3	504.9	501.2	500.2
15°	465.8	472.3	491.8	515.1	533.8	540.3	531.9	519.8	510.5	509.5	508.6
17.5°	486.3	495.6	522.6	546.8	564.5	558.0	535.6	528.2	525.4	529.1	528.2
20°	512.3	519.8	546.8	576.6	585.9	560.8	544.9	540.3	537.5	537.5	535.6
22.5°	533.8	539.4	572.0	604.6	599.0	562.6	551.5	542.1	532.8	531.9	529.1
25°	558.9	560.8	595.2	630.6	600.8	564.5	544.9	529.1	519.8	517.0	517.9
27.5°	582.2	586.9	616.7	648.3	596.2	554.3	522.6	502.1	488.1	487.2	487.2
30°	612.0	612.0	639.0	667.9	585.9	528.2	486.3	456.4	445.3	444.3	442.5
32.5°	645.5	640.0	666.0	681.9	563.6	492.8	436.9	403.3	385.7	381.9	379.1
35°	692.1	680.0	698.6	684.7	541.2	442.5	374.5	336.3	323.2	317.6	317.6
37.5°	746.2	728.5	748.0	676.3	506.7	383.8	309.3	280.4	266.4	258.0	260.8
40°	809.5	787.1	798.3	667.0	469.5	318.6	255.2	237.5	220.8	209.6	209.6
42.5°	884.0	846.8	855.1	657.7	416.4	261.8	220.8	208.7	195.6	184.4	187.2
45°	955.7	919.4	911.0	648.3	360.5	223.6	206.8	198.4	186.3	173.3	173.3
47.5°	1038.6	992.1	960.4	631.6	305.5	211.5	210.5	198.4	175.1	156.5	154.6
50°	1116.9	1074.0	1005.1	606.4	274.8	221.7	209.6	180.7	158.4	146.2	145.3
52.5°	1199.8	1155.1	1041.4	575.7	259.0	217.0	192.8	165.8	149.0	136.9	134.1
55°	1281.8	1258.5	1074.0	545.9	233.8	202.1	178.9	156.5	138.8	127.6	125.8
57.5°	1374.9	1365.6	1102.0	516.1	194.7	183.5	168.6	150.0	133.2	124.8	123.9
60°	1456.0	1488.6	1135.5	493.7	165.8	169.5	163.9	149.0	136.9	127.6	127.6
62.5°	1541.7	1606.9	1165.3	464.8	144.4	161.2	164.9	148.1	132.3	123.9	123.9
65°	1616.2	1728.0	1196.1	411.7	129.5	154.6	162.1	137.9	119.2	112.7	110.9
66°	1647.9	1762.4	1205.4	379.1	123.9	150.0	157.4	132.3	113.6	108.1	107.1
67.5°	1685.1	1816.5	1216.6	309.3	115.5	139.7	147.2	123.9	104.3	100.6	98.7
70°	1737.3	1827.6	1210.0	202.1	100.6	120.2	131.3	110.9	93.2	90.4	87.6
72.5°	1742.9	1751.3	1144.8	127.6	87.6	103.4	115.5	99.7	82.0	79.2	77.3
75°	1650.7	1551.9	968.8	91.3	77.3	91.3	101.5	86.6	68.0	64.3	62.4
77.5°	1409.4	1231.5	696.8	68.0	67.1	78.2	84.8	75.5	56.8	54.0	53.1
80°	989.3	835.6	349.3	51.2	53.1	65.2	70.8	63.3	47.5	43.8	41.9
82.5°	400.6	354.9	120.2	38.2	40.1	49.4	60.5	52.2	36.3	31.7	27.9
85°	45.6	77.3	52.2	26.1	27.0	33.5	41.0	31.7	21.4	17.7	14.9
87.5°	9.3	16.8	18.6	10.2	9.3	13.0	18.6	11.2	7.5	2.8	3.7
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)