

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: P595033

Luminaire Tested: **IST-PA1B-727-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595033
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-727-U-T3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4279 lumens
Efficiency: N/A
Efficacy: 117.6 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

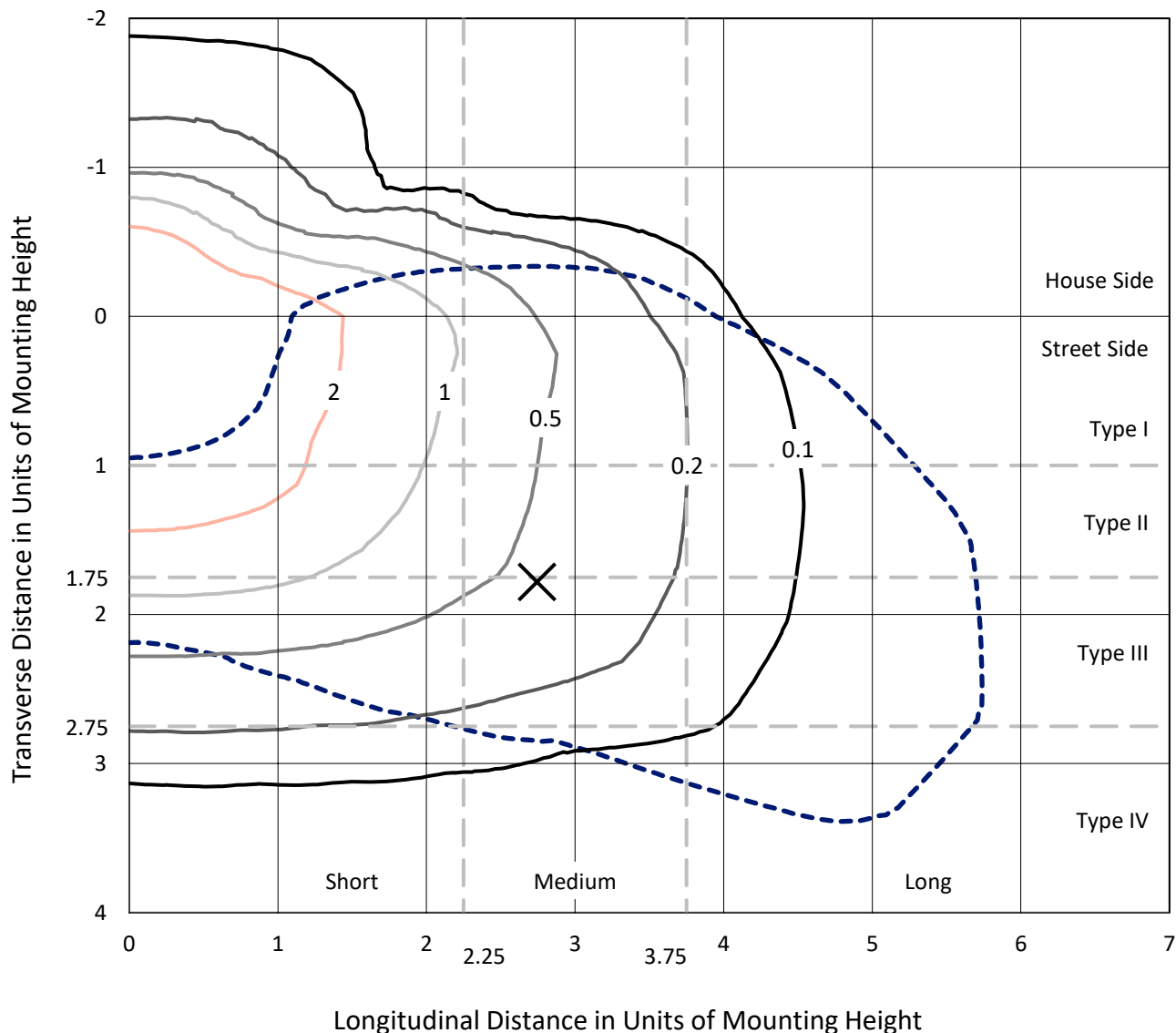
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

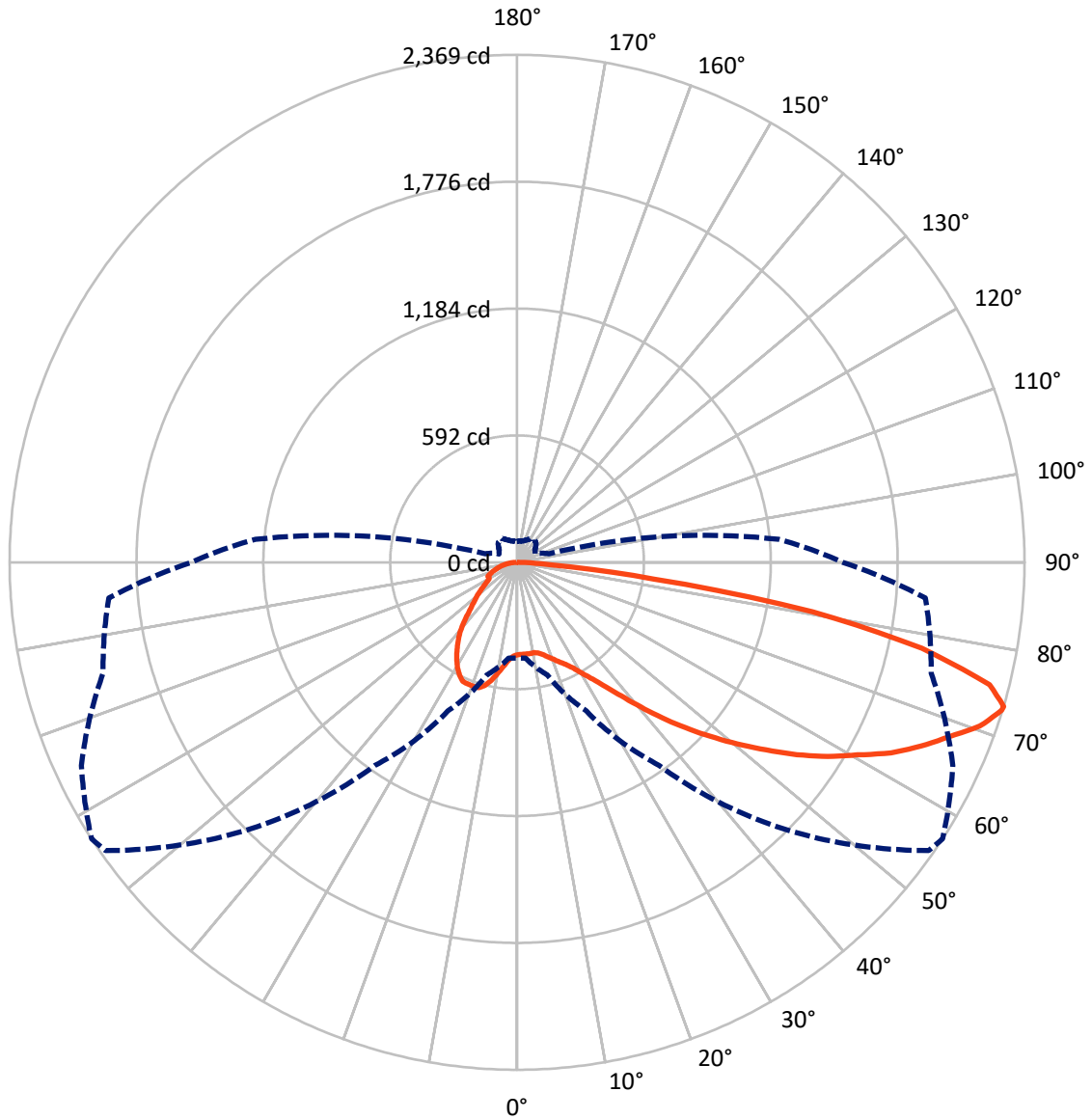
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.7 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	1020.8	0.0	1020.8
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	3258.2	0.0	3258.2
	% Fixture	76.1	0.0	76.1
Total	Lumens	4279.0	0.0	4279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	1.0
10°-20°	141.6	3.3
20°-30°	261.3	6.1
30°-40°	403.5	9.4
40°-50°	607.4	14.2
50°-60°	889.0	20.8
60°-70°	1049.8	24.5
70°-80°	751.6	17.6
80°-90°	131.7	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°	4279.0	100.0
0°-180°	4279.0	100.0

Coefficient of Utilization

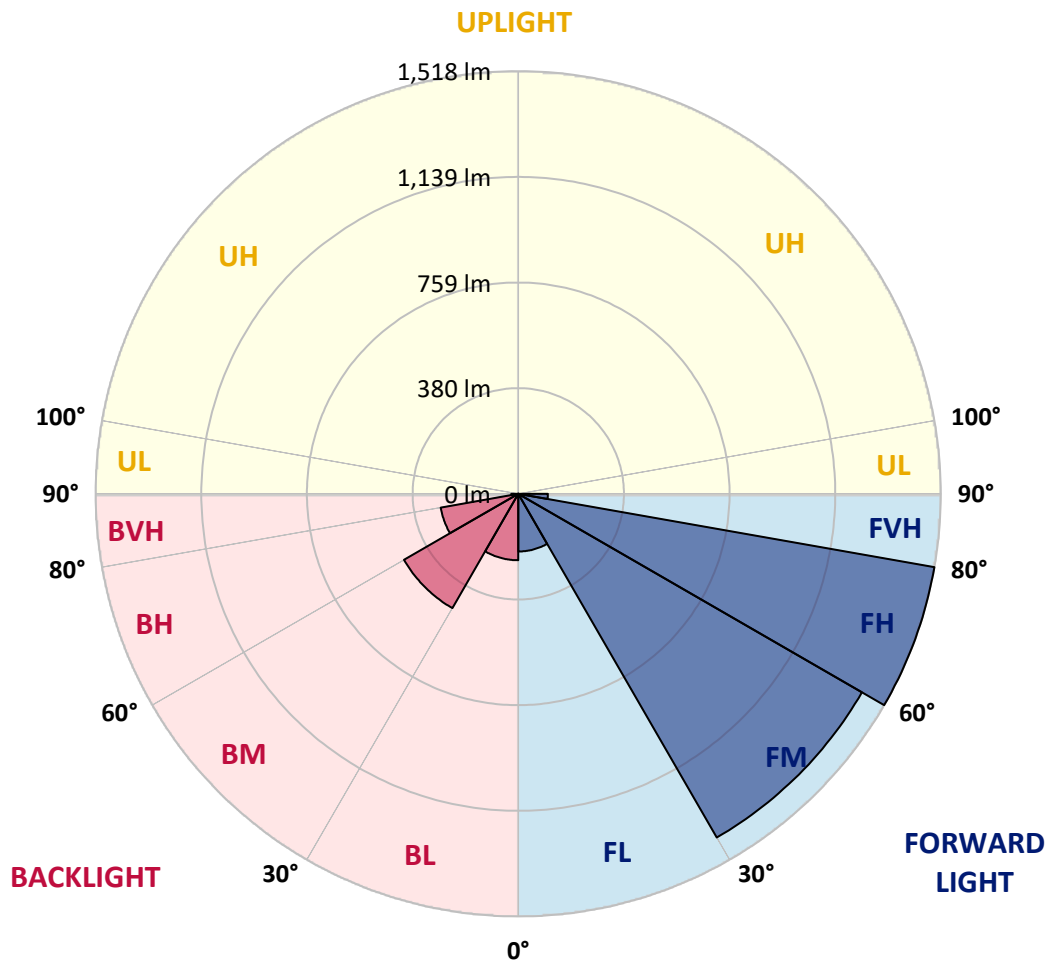


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	207.3	4.8			
FM (30°-60°)	1425.9	33.3			
FH (60°-80°)	1518.4	35.5			G1/1800
FVH (80°-90°)	106.5	2.5			G2/225
BL (0°-30°)	238.6	5.6	B1/500		
BM (30°-60°)	474.1	11.1	B1/1000		
BH (60°-80°)	283.0	6.6	B1/500		G1/500
BVH (80°-90°)	25.2	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°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	425.9	428.0	426.9	428.0	431.1	429.0	429.0	430.1	431.1	430.1	432.2
5°	408.0	409.1	411.2	415.4	422.7	424.8	430.1	430.1	432.2	434.3	437.4
7.5°	378.7	380.8	385.0	389.2	401.7	414.3	428.0	430.1	437.4	442.6	444.7
10°	373.4	375.5	376.6	382.9	395.4	408.0	424.8	429.0	442.6	451.0	460.5
12.5°	368.2	370.3	373.4	381.8	397.5	411.2	429.0	433.2	450.0	466.8	478.3
15°	372.4	373.4	376.6	385.0	400.7	419.6	442.6	445.8	464.7	485.7	503.5
17.5°	382.9	383.9	382.9	390.2	404.9	426.9	458.4	463.6	486.7	507.7	525.5
20°	407.0	408.0	403.8	403.8	414.3	436.4	475.2	482.5	510.8	533.9	551.7
22.5°	459.4	457.3	446.8	433.2	433.2	451.0	494.0	504.5	540.2	559.1	574.8
25°	533.9	533.9	517.1	491.9	475.2	473.1	516.1	527.6	569.6	592.6	602.1
27.5°	624.1	625.2	597.9	564.3	531.8	516.1	547.5	559.1	606.3	630.4	633.6
30°	703.8	704.9	677.6	646.1	606.3	571.7	589.5	602.1	656.6	675.5	665.0
32.5°	783.6	784.6	765.7	722.7	680.8	637.8	643.0	650.3	705.9	723.8	707.0
35°	852.8	855.9	837.0	804.5	760.5	721.7	712.2	713.3	763.6	775.2	753.1
37.5°	923.1	923.1	911.5	881.1	843.3	800.3	787.7	790.9	836.0	847.5	816.1
40°	1012.2	1016.4	1010.1	972.4	929.4	893.7	881.1	885.3	934.6	928.3	894.7
42.5°	1120.3	1129.7	1119.2	1078.3	1032.1	992.3	992.3	992.3	1034.2	1035.3	984.9
45°	1258.7	1258.7	1248.2	1212.6	1151.7	1111.9	1098.2	1101.4	1138.1	1142.3	1083.5
47.5°	1374.1	1384.6	1373.1	1346.8	1298.6	1260.8	1217.8	1212.6	1243.0	1243.0	1192.6
50°	1467.5	1486.3	1476.9	1488.4	1453.8	1434.9	1346.8	1332.1	1342.6	1353.1	1297.5
52.5°	1545.1	1559.8	1556.6	1590.2	1607.0	1617.5	1477.9	1454.9	1463.3	1462.2	1411.9
55°	1550.3	1555.6	1602.8	1678.3	1744.4	1793.7	1610.1	1584.9	1576.5	1572.3	1533.5
57.5°	1519.9	1523.0	1617.5	1706.6	1850.3	1907.0	1734.9	1709.8	1698.2	1683.5	1667.8
60°	1446.5	1462.2	1586.0	1723.4	1913.3	1995.1	1851.4	1825.1	1816.8	1785.3	1820.9
62.5°	1353.1	1360.5	1484.2	1688.8	1921.6	2032.8	1974.1	1958.4	1932.1	1887.0	1957.3
65°	1221.0	1219.9	1329.0	1587.0	1878.6	2051.7	2077.9	2069.5	2037.0	1959.4	2079.0
67.5°	1002.8	1026.9	1133.9	1406.6	1774.8	2070.6	2183.9	2173.4	2122.0	2024.4	2136.7
70°	764.7	779.4	901.0	1136.0	1568.2	2019.2	2287.7	2290.9	2197.5	2038.1	2111.5
72.5°	487.8	512.9	609.4	827.6	1255.6	1828.3	2349.6	2364.3	2239.5	2019.2	1955.2
73°	446.8	448.9	543.3	765.7	1158.0	1760.1	2345.4	2368.5	2243.7	2000.3	1912.2
75°	266.4	278.0	334.6	508.7	826.6	1414.0	2232.1	2278.3	2221.6	1916.4	1676.2
77.5°	124.8	133.2	164.7	268.5	450.0	850.7	1876.5	1931.1	1968.8	1677.2	1277.6
80°	66.1	67.1	80.8	135.3	241.3	350.3	1308.0	1398.2	1451.7	1262.9	859.1
82.5°	55.6	55.6	62.9	87.1	154.2	136.4	539.2	641.9	786.7	622.0	337.8
85°	45.1	46.2	62.9	65.0	110.1	70.3	129.0	161.5	305.2	274.8	37.8
87.5°	14.7	16.8	35.7	46.2	58.7	27.3	32.5	35.7	35.7	52.4	12.6
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°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	433.2	433.2	434.3	435.3	437.4	437.4	439.5	440.6	442.6	443.7	440.6
5°	437.4	439.5	441.6	447.9	455.2	461.5	467.8	473.1	478.3	481.5	480.4
7.5°	448.9	452.1	460.5	472.0	486.7	496.1	505.6	515.0	519.2	521.3	521.3
10°	464.7	471.0	486.7	505.6	522.4	537.1	544.4	550.7	552.8	554.9	552.8
12.5°	486.7	495.1	519.2	543.3	562.2	569.6	568.5	560.1	548.6	546.5	544.4
15°	515.0	525.5	552.8	581.1	595.8	586.4	562.2	553.8	551.7	558.0	555.9
17.5°	539.2	551.7	585.3	614.7	611.5	579.0	571.7	575.9	573.8	574.8	574.8
20°	562.2	580.1	615.7	635.7	608.4	587.4	581.1	575.9	569.6	571.7	569.6
22.5°	591.6	604.2	645.1	646.1	604.2	587.4	573.8	563.3	561.2	562.2	563.3
25°	614.7	634.6	670.3	638.8	604.2	570.6	551.7	549.6	550.7	557.0	554.9
27.5°	646.1	666.1	690.2	634.6	579.0	543.3	536.0	535.0	527.6	529.7	529.7
30°	675.5	699.6	700.7	634.6	547.5	520.3	509.8	490.9	475.2	478.3	477.3
32.5°	715.4	736.4	702.8	609.4	511.9	489.9	461.5	432.2	424.8	429.0	430.1
35°	761.5	778.3	704.9	567.5	476.2	446.8	395.4	378.7	377.6	380.8	383.9
37.5°	822.4	831.8	720.6	519.2	441.6	379.7	339.9	335.7	326.2	319.9	321.0
40°	896.8	885.3	751.0	476.2	400.7	318.9	302.1	290.6	272.7	254.9	258.0
42.5°	979.7	947.2	760.5	441.6	345.1	281.1	265.4	247.5	225.5	206.6	205.6
45°	1068.9	1016.4	752.1	414.3	289.5	252.8	236.0	215.0	188.8	173.1	173.1
47.5°	1174.8	1082.5	725.9	392.3	250.7	227.6	206.6	185.7	167.8	153.1	153.1
50°	1291.2	1159.1	707.0	353.5	223.4	203.5	182.5	165.7	152.1	140.6	140.6
52.5°	1414.0	1231.4	691.2	296.8	199.3	181.5	166.8	153.1	141.6	126.9	124.8
55°	1538.8	1300.7	698.6	242.3	177.3	165.7	156.3	142.7	138.5	135.3	133.2
57.5°	1668.9	1376.2	716.4	198.2	158.4	157.3	153.1	162.6	172.0	165.7	162.6
60°	1770.6	1434.9	718.5	166.8	146.9	165.7	186.7	189.9	164.7	150.0	148.9
62.5°	1851.4	1490.5	669.2	144.8	150.0	195.1	199.3	167.8	142.7	136.4	136.4
65°	1893.3	1510.5	538.1	132.2	156.3	186.7	180.4	151.0	133.2	132.2	132.2
67.5°	1872.3	1494.7	376.6	118.5	138.5	161.5	161.5	138.5	122.7	128.0	125.9
70°	1771.6	1417.1	248.6	107.0	121.7	145.8	150.0	129.0	114.3	117.5	114.3
72.5°	1561.9	1278.6	163.6	94.4	104.9	129.0	139.5	118.5	104.9	103.8	100.7
73°	1521.0	1226.2	154.2	92.3	101.7	124.8	136.4	116.4	102.8	99.6	97.6
75°	1290.2	1022.7	116.4	82.9	90.2	112.2	126.9	109.1	94.4	90.2	88.1
77.5°	939.8	709.1	87.1	70.3	75.5	97.6	112.2	99.6	83.9	78.7	77.6
80°	586.4	386.0	65.0	56.6	59.8	81.8	98.6	89.2	72.4	66.1	65.0
82.5°	229.7	125.9	45.1	42.0	44.1	61.9	82.9	77.6	60.8	55.6	52.4
85°	37.8	43.0	29.4	28.3	28.3	44.1	62.9	59.8	40.9	35.7	31.5
87.5°	10.5	19.9	11.5	10.5	10.5	18.9	34.6	27.3	16.8	13.6	12.6
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)