

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: P595094

Luminaire Tested: **IST-PA1B-830-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595094
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-PA1B-830-U-T2U
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4110 lumens
Efficiency: N/A
Efficacy: 112.9 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

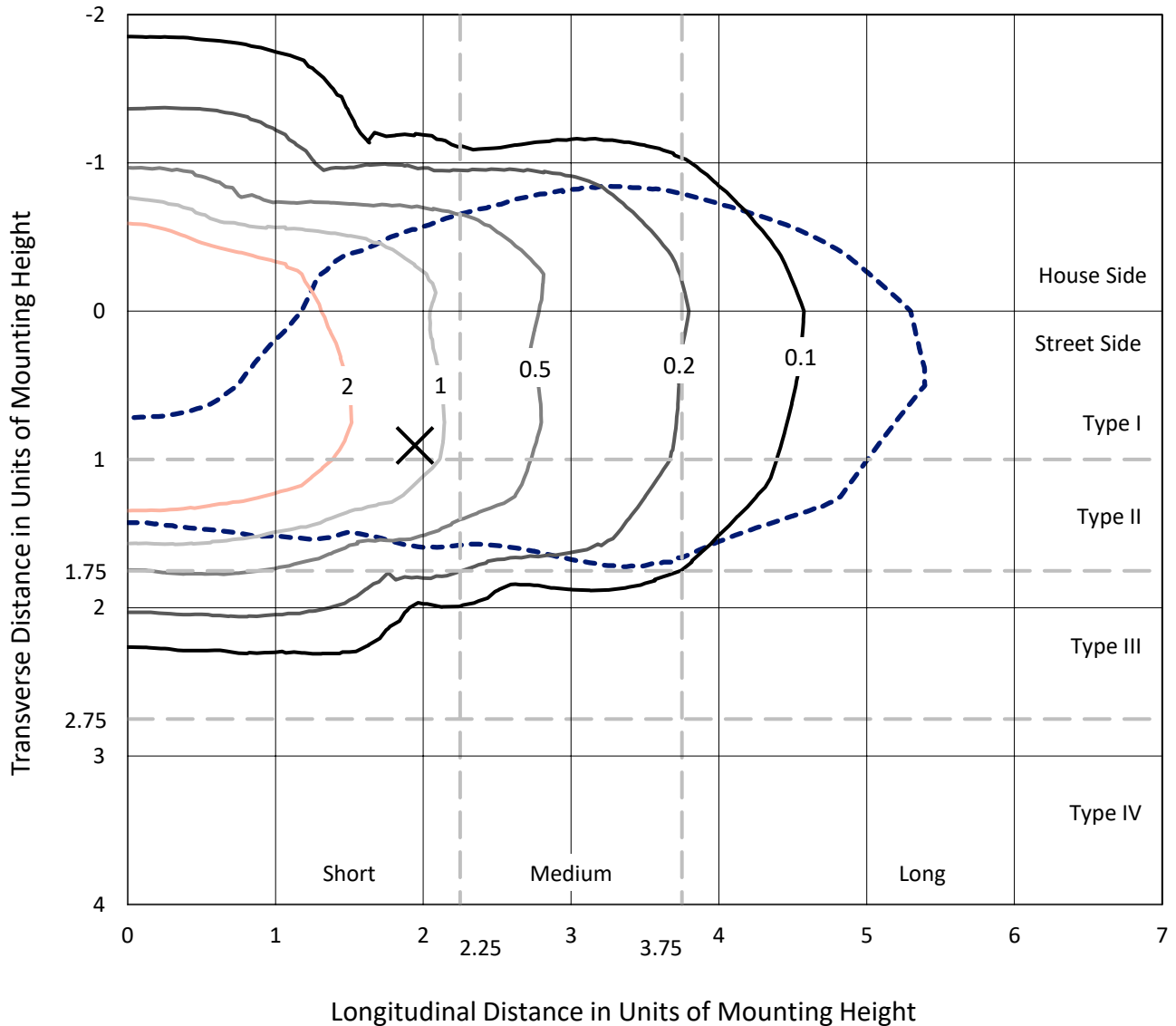
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

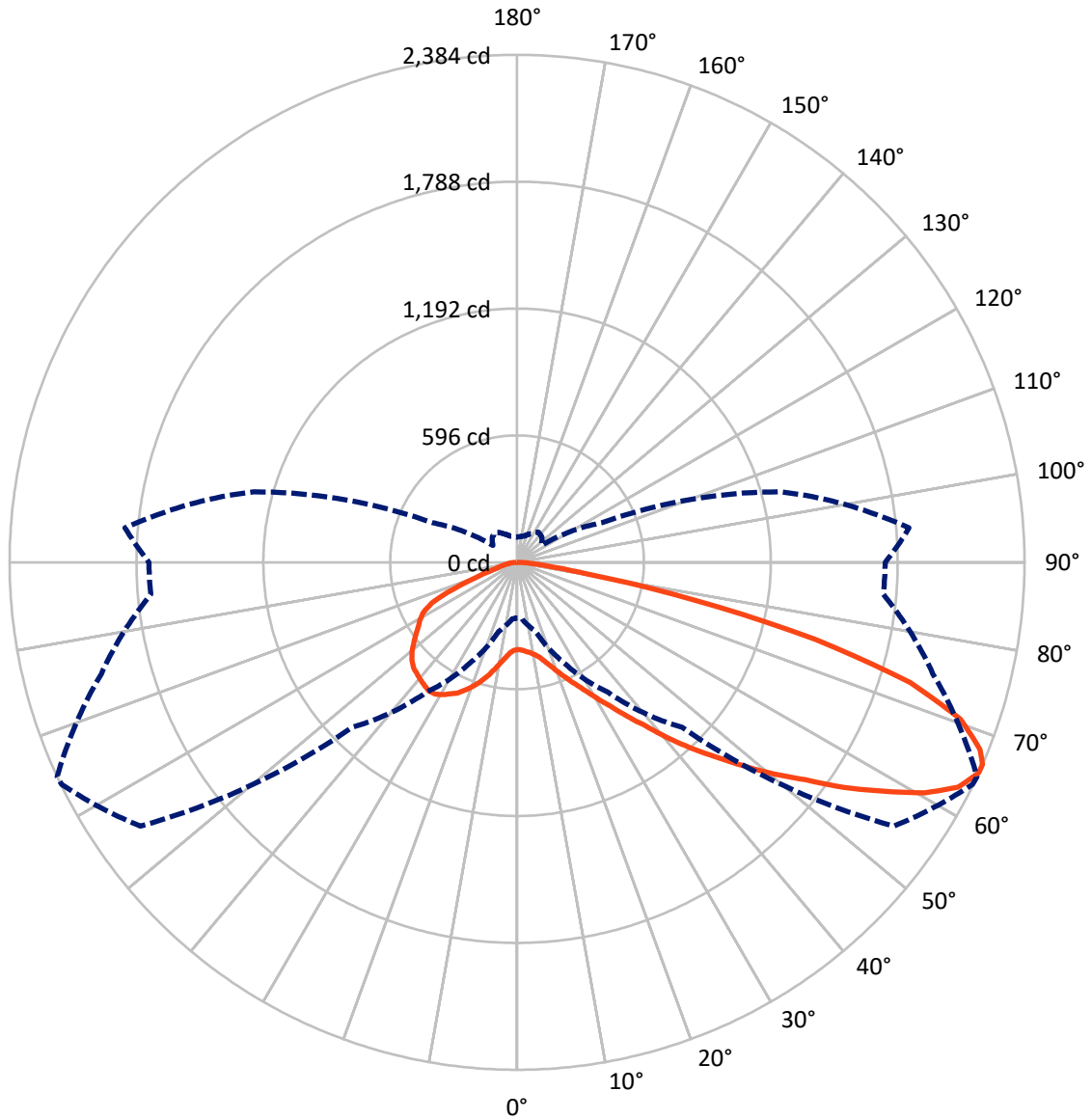
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.5 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
House Side	Lumens	1248.0	0.0	1248.0
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	2862.0	0.0	2862.0
	% Fixture	69.6	0.0	69.6
Total	Lumens	4110.0	0.0	4110.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	1.0
10°-20°	145.7	3.5
20°-30°	285.3	6.9
30°-40°	466.2	11.3
40°-50°	739.9	18.0
50°-60°	951.6	23.2
60°-70°	858.2	20.9
70°-80°	532.3	13.0
80°-90°	89.2	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°	4110.0	100.0
0°-180°	4110.0	100.0

Coefficient of Utilization



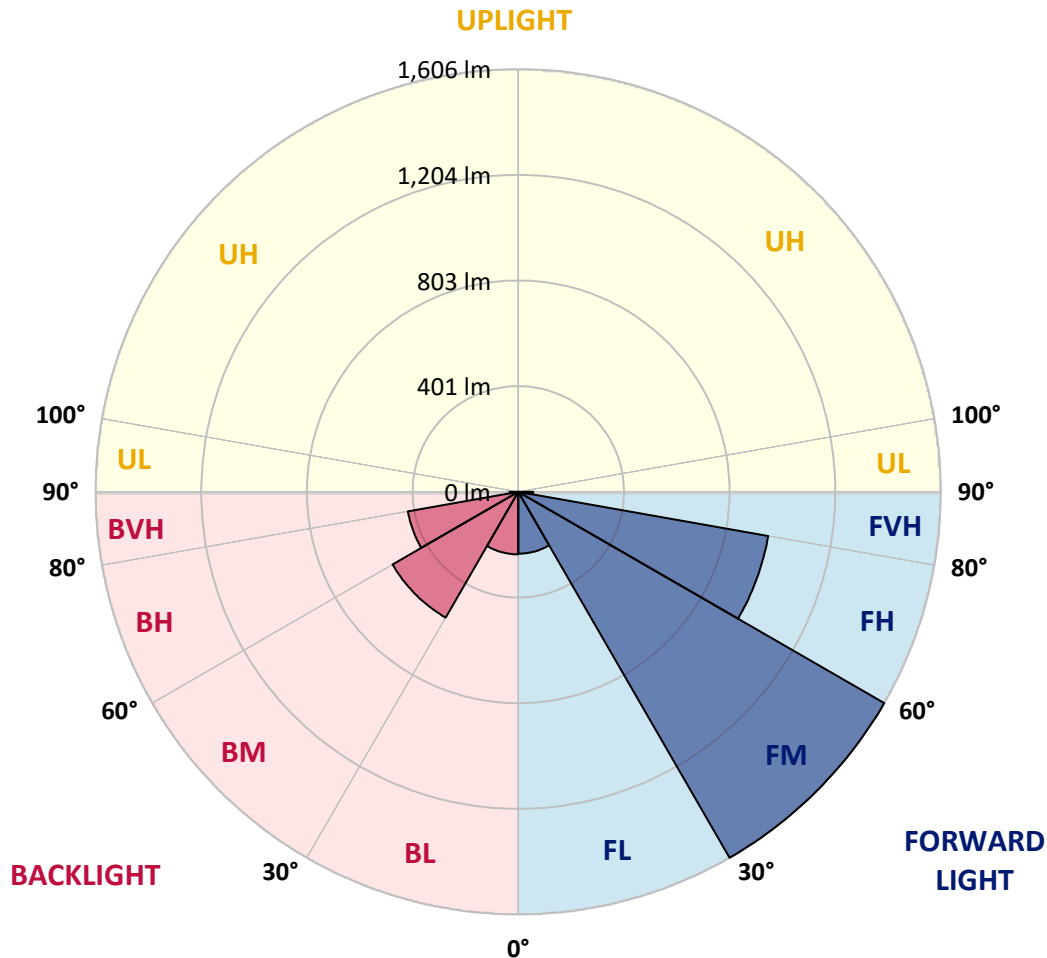
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	235.0	5.7			
FM (30°-60°)	1606.0	39.1			
FH (60°-80°)	964.6	23.5			G1/1800
FVH (80°-90°)	56.4	1.4			G1/100
BL (0°-30°)	237.7	5.8	B1/500		
BM (30°-60°)	551.7	13.4	B1/1000		
BH (60°-80°)	425.8	10.4	B1/500		G1/500
BVH (80°-90°)	32.8	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°	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7
2.5°	410.7	411.7	412.7	410.7	412.7	413.7	411.7	411.7	412.7	410.7	410.7
5°	407.7	408.7	410.7	411.7	415.6	417.6	418.6	418.6	419.6	418.6	419.6
7.5°	399.7	399.7	403.7	405.7	411.7	418.6	422.6	428.6	428.6	429.6	432.6
10°	407.7	407.7	410.7	413.7	418.6	424.6	430.6	437.6	439.6	446.5	450.5
12.5°	419.6	421.6	425.6	429.6	435.6	442.6	447.5	454.5	455.5	462.5	470.5
15°	439.6	441.6	443.6	448.5	456.5	465.5	474.5	479.4	481.4	485.4	491.4
17.5°	469.5	471.5	472.5	475.5	481.4	493.4	506.4	510.3	512.3	512.3	517.3
20°	520.3	519.3	517.3	511.3	511.3	522.3	540.2	547.2	549.2	545.2	542.2
22.5°	579.1	578.1	570.1	563.2	558.2	560.2	578.1	590.1	589.1	581.1	569.2
25°	655.9	657.9	644.9	627.0	612.0	608.0	619.0	631.0	632.9	618.0	598.1
27.5°	747.6	744.6	737.6	708.7	679.8	661.8	667.8	680.8	681.8	665.8	633.9
30°	855.2	850.2	832.3	802.4	757.5	732.6	727.6	738.6	741.6	714.7	668.8
32.5°	974.8	969.8	946.9	901.1	852.2	810.4	794.4	809.4	807.4	776.5	712.7
35°	1119.4	1118.4	1076.5	1019.7	957.9	902.1	880.1	880.1	886.1	840.3	768.5
37.5°	1312.7	1320.7	1258.9	1170.2	1083.5	1008.7	971.8	969.8	970.8	921.0	831.3
40°	1487.2	1484.2	1448.3	1365.6	1239.0	1143.3	1088.5	1076.5	1079.5	1015.7	913.0
42.5°	1587.8	1590.8	1581.9	1546.0	1435.3	1314.7	1221.0	1189.1	1190.1	1110.4	990.8
45°	1650.6	1653.6	1652.6	1670.6	1626.7	1513.1	1379.5	1305.8	1301.8	1218.0	1082.5
47.5°	1686.5	1688.5	1701.5	1738.4	1774.2	1748.3	1554.9	1435.3	1427.4	1318.7	1174.2
50°	1646.7	1647.6	1699.5	1787.2	1874.9	1953.7	1734.4	1563.9	1561.9	1430.4	1263.9
52.5°	1437.3	1455.3	1569.9	1753.3	1949.7	2099.2	1941.7	1715.4	1698.5	1536.0	1353.6
55°	1173.2	1181.2	1312.7	1546.0	1935.7	2188.9	2098.2	1878.9	1866.9	1653.6	1441.3
57.5°	916.0	924.0	1080.5	1274.9	1722.4	2183.9	2208.8	2055.3	2028.4	1756.3	1529.0
60°	591.1	616.0	797.4	1036.6	1394.5	2032.4	2264.6	2224.8	2199.9	1858.0	1603.8
62.5°	401.7	405.7	519.3	768.5	1043.6	1651.6	2260.7	2329.4	2325.4	1959.6	1678.5
65°	261.2	267.1	335.9	520.3	746.6	1096.4	2161.0	2380.3	2384.3	2022.4	1727.4
66°	221.3	225.3	278.1	437.6	653.9	869.2	2073.3	2376.3	2384.3	2051.3	1742.3
67.5°	192.4	195.4	222.3	323.0	534.3	625.0	1845.0	2323.5	2346.4	2078.2	1761.3
70°	165.5	169.4	194.4	220.3	381.8	364.8	1168.2	2187.9	2210.8	2091.2	1773.2
72.5°	136.6	139.5	164.5	199.4	277.1	245.2	515.3	1872.9	1930.7	2043.4	1754.3
75°	107.7	109.6	132.6	166.5	212.3	191.4	224.3	1373.5	1446.3	1801.1	1680.5
77.5°	83.7	84.7	102.7	129.6	194.4	148.5	138.5	668.8	846.3	1391.5	1480.2
80°	57.8	59.8	75.8	97.7	142.5	117.6	92.7	261.2	331.9	924.0	1122.4
82.5°	37.9	38.9	51.8	73.8	94.7	112.6	60.8	126.6	139.5	425.6	486.4
85°	25.9	25.9	36.9	45.9	64.8	74.8	39.9	66.8	72.8	161.5	58.8
87.5°	13.0	13.0	17.9	23.9	30.9	28.9	23.9	23.9	23.9	52.8	16.9
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°	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7
2.5°	411.7	411.7	412.7	413.7	414.7	414.7	415.6	415.6	414.7	415.6	416.6
5°	420.6	421.6	423.6	426.6	431.6	436.6	441.6	444.6	447.5	448.5	446.5
7.5°	434.6	436.6	443.6	451.5	459.5	471.5	478.4	482.4	484.4	486.4	484.4
10°	452.5	456.5	466.5	480.4	494.4	509.3	517.3	523.3	524.3	526.3	524.3
12.5°	473.5	480.4	495.4	515.3	532.3	547.2	553.2	549.2	540.2	536.3	535.3
15°	498.4	505.4	526.3	551.2	571.1	578.1	569.2	556.2	546.2	545.2	544.2
17.5°	520.3	530.3	559.2	585.1	604.0	597.1	573.1	565.2	562.2	566.2	565.2
20°	548.2	556.2	585.1	617.0	627.0	600.1	583.1	578.1	575.1	575.1	573.1
22.5°	571.1	577.1	612.0	646.9	640.9	602.0	590.1	580.1	570.1	569.2	566.2
25°	598.1	600.1	636.9	674.8	642.9	604.0	583.1	566.2	556.2	553.2	554.2
27.5°	623.0	628.0	659.9	693.7	637.9	593.1	559.2	537.3	522.3	521.3	521.3
30°	654.9	654.9	683.8	714.7	627.0	565.2	520.3	488.4	476.5	475.5	473.5
32.5°	690.8	684.8	712.7	729.6	603.0	527.3	467.5	431.6	412.7	408.7	405.7
35°	740.6	727.6	747.6	732.6	579.1	473.5	400.7	359.8	345.9	339.9	339.9
37.5°	798.4	779.5	800.4	723.6	542.2	410.7	330.9	300.0	285.1	276.1	279.1
40°	866.2	842.3	854.2	713.7	502.4	340.9	273.1	254.2	236.2	224.3	224.3
42.5°	945.9	906.1	915.0	703.7	445.6	280.1	236.2	223.3	209.3	197.4	200.3
45°	1022.7	983.8	974.8	693.7	385.7	239.2	221.3	212.3	199.4	185.4	185.4
47.5°	1111.4	1061.6	1027.7	675.8	326.9	226.3	225.3	212.3	187.4	167.5	165.5
50°	1195.1	1149.3	1075.5	648.9	294.0	237.2	224.3	193.4	169.4	156.5	155.5
52.5°	1283.8	1236.0	1114.4	616.0	277.1	232.2	206.3	177.4	159.5	146.5	143.5
55°	1371.5	1346.6	1149.3	584.1	250.2	216.3	191.4	167.5	148.5	136.6	134.6
57.5°	1471.2	1461.3	1179.2	552.2	208.3	196.4	180.4	160.5	142.5	133.6	132.6
60°	1557.9	1592.8	1215.1	528.3	177.4	181.4	175.4	159.5	146.5	136.6	136.6
62.5°	1649.6	1719.4	1246.9	497.4	154.5	172.4	176.4	158.5	141.5	132.6	132.6
65°	1729.4	1849.0	1279.8	440.6	138.5	165.5	173.4	147.5	127.6	120.6	118.6
66°	1763.3	1885.9	1289.8	405.7	132.6	160.5	168.5	141.5	121.6	115.6	114.6
67.5°	1803.1	1943.7	1301.8	330.9	123.6	149.5	157.5	132.6	111.6	107.7	105.7
70°	1859.0	1955.6	1294.8	216.3	107.7	128.6	140.5	118.6	99.7	96.7	93.7
72.5°	1864.9	1873.9	1225.0	136.6	93.7	110.6	123.6	106.7	87.7	84.7	82.7
75°	1766.3	1660.6	1036.6	97.7	82.7	97.7	108.6	92.7	72.8	68.8	66.8
77.5°	1508.1	1317.7	745.6	72.8	71.8	83.7	90.7	80.7	60.8	57.8	56.8
80°	1058.6	894.1	373.8	54.8	56.8	69.8	75.8	67.8	50.8	46.8	44.9
82.5°	428.6	379.8	128.6	40.9	42.9	52.8	64.8	55.8	38.9	33.9	29.9
85°	48.8	82.7	55.8	27.9	28.9	35.9	43.9	33.9	22.9	18.9	15.9
87.5°	10.0	17.9	19.9	11.0	10.0	14.0	19.9	12.0	8.0	3.0	4.0
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)