

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: STREETWORKS

Report Number: P478307

Luminaire Tested: **IFLD-S-SA2A-830-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478307
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-830-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

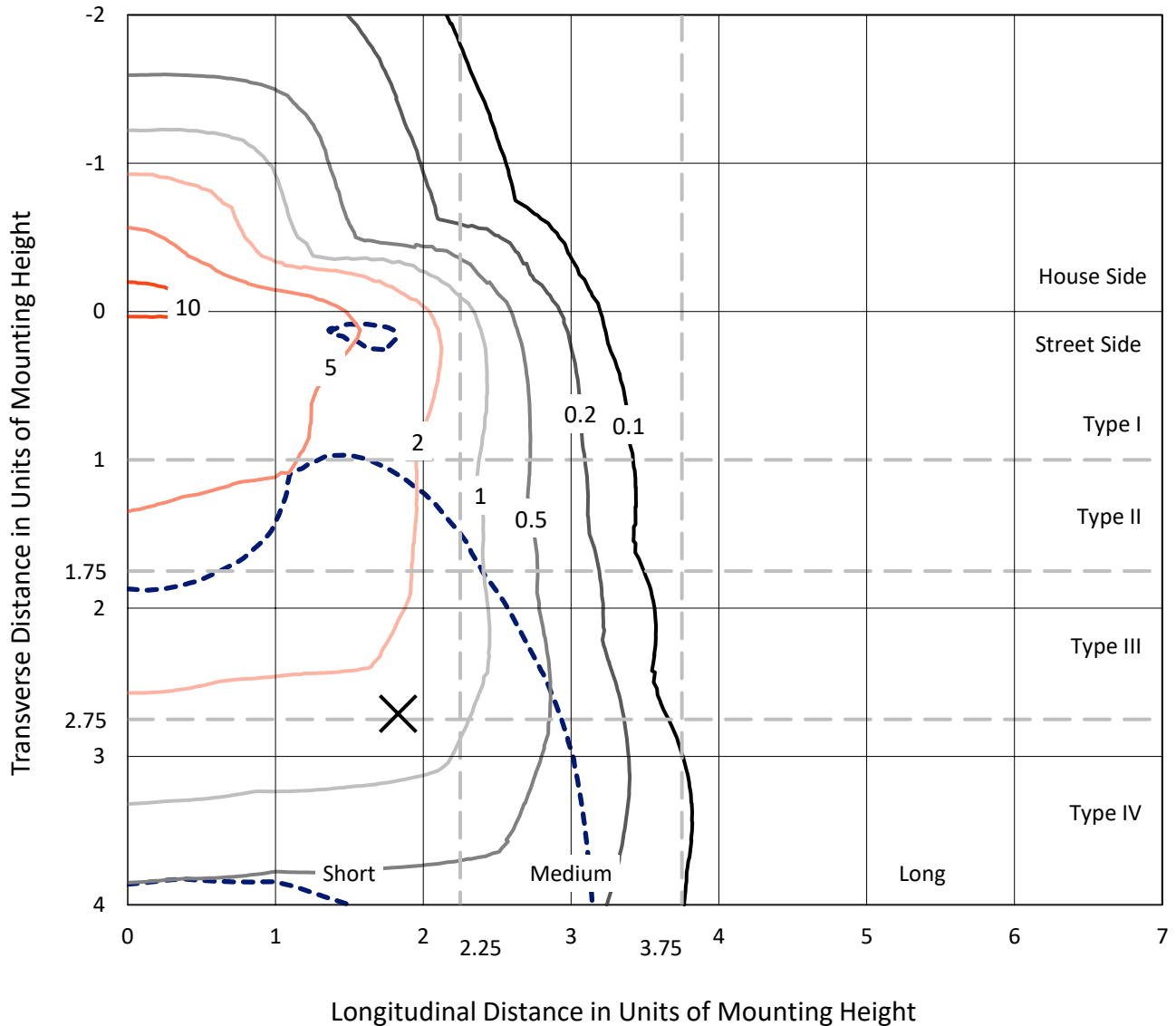
Lumens per Lamp: N/A
Luminaire Lumens: 7515.6 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
Input Voltage (V): 120
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: 24 FT

REPORT NUMBER: P478307
 CATALOG NUMBER: IFLD-S-SA2A-830-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

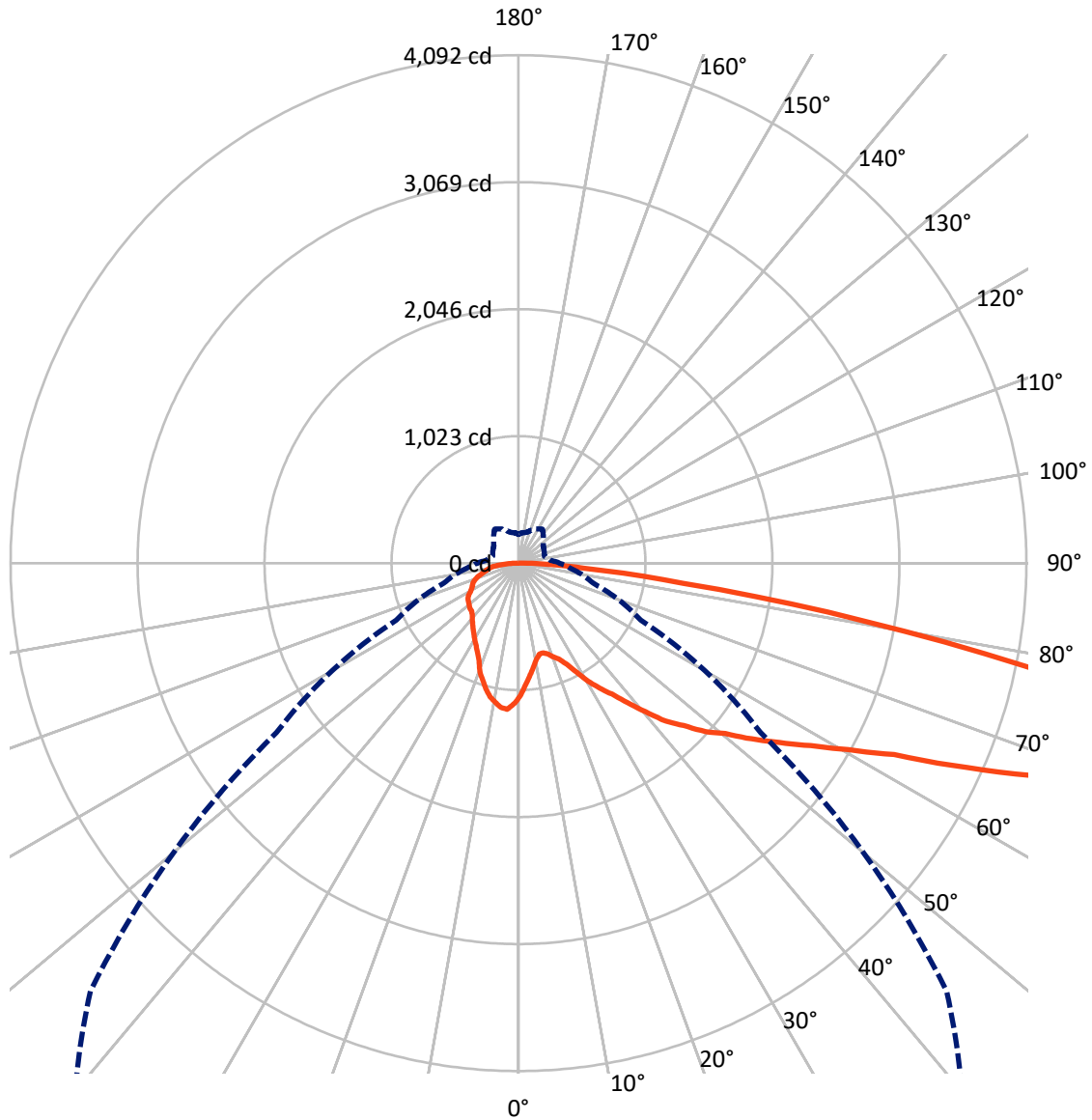
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P478307
CATALOG NUMBER: IFLD-S-SA2A-830-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P478307
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1623.5	0.0	1623.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	5892.1	0.0	5892.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	7515.6	0.0	7515.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	1.3
10°-20°	278.3	3.7
20°-30°	458.1	6.1
30°-40°	685.0	9.1
40°-50°	1015.5	13.5
50°-60°	1463.5	19.5
60°-70°	1867.6	24.8
70°-80°	1453.3	19.3
80°-90°	195.0	2.6
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°	7515.6	100.0
0°-180°	7515.6	100.0

Coefficient of Utilization



REPORT NUMBER: P478307

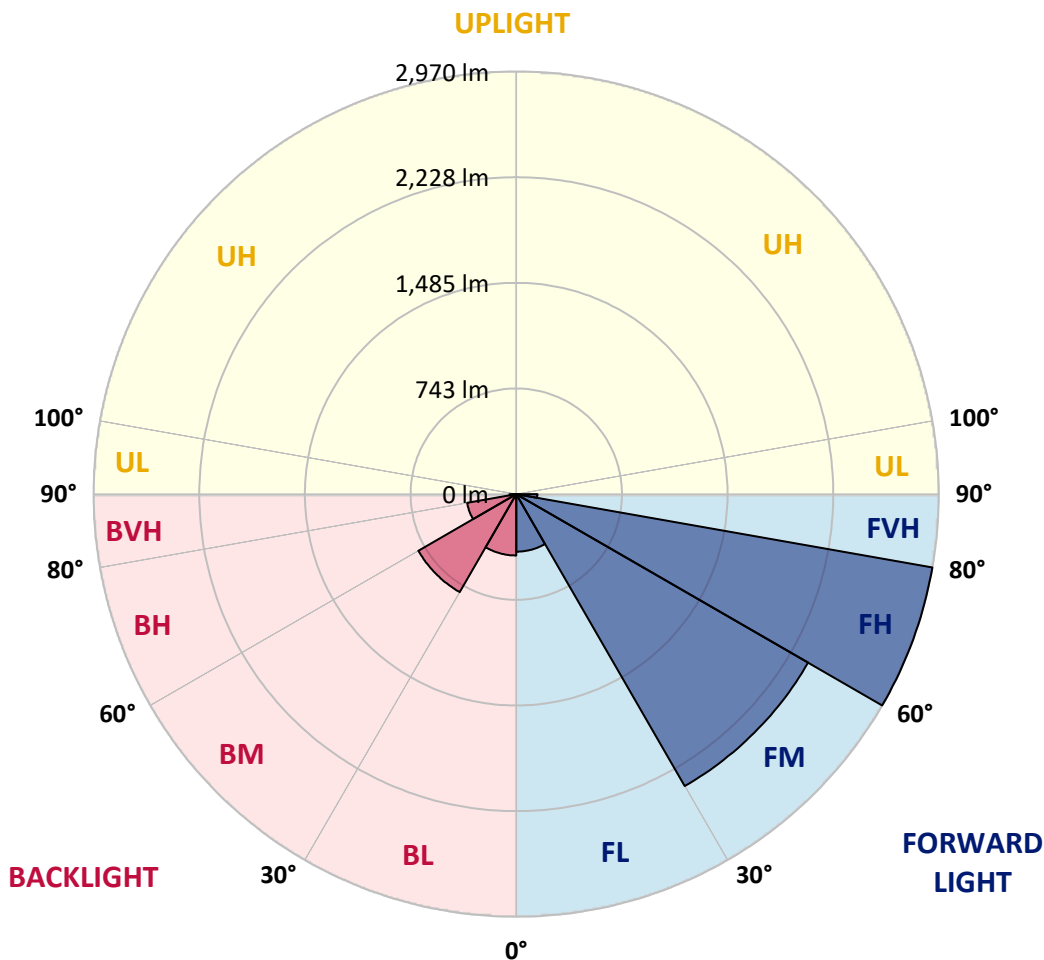
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	404.5	5.4			
FM (30°-60°)	2369.0	31.5			
FH (60°-80°)	2970.3	39.5			G2/5000
FVH (80°-90°)	148.4	2.0			G2/225
BL (0°-30°)	431.3	5.7	B1/500		
BM (30°-60°)	795.0	10.6	B1/1000		
BH (60°-80°)	350.5	4.7	B1/500		G1/500
BVH (80°-90°)	46.6	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 Short





REPORT NUMBER: P478307

CATALOG NUMBER: IFLD-S-SA2A-830-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5
2.5°	965.4	968.6	978.9	981.3	992.5	986.1	999.6	1023.4	1037.0	1056.8	1080.7
5°	889.2	875.6	882.0	906.6	919.4	922.5	936.8	977.4	1002.8	1032.2	1076.7
7.5°	799.4	797.0	809.7	825.6	851.0	853.4	885.2	920.9	973.4	1038.5	1091.0
10°	738.2	748.5	755.7	772.4	789.8	789.8	830.4	892.3	951.9	1014.7	1094.2
12.5°	735.0	728.6	730.2	739.0	751.7	767.6	805.7	861.3	936.8	1009.9	1107.7
15°	745.3	747.7	733.4	744.5	749.3	754.9	797.0	859.8	927.3	1026.6	1130.7
17.5°	800.2	786.7	764.4	754.1	770.8	770.8	799.4	848.6	928.9	1035.4	1164.1
20°	843.1	843.1	806.5	795.4	807.3	804.9	824.8	861.3	936.8	1052.8	1201.4
22.5°	915.4	925.7	865.3	842.3	841.5	847.8	865.3	896.3	959.1	1077.5	1237.2
25°	1019.5	1021.9	951.9	928.1	902.7	913.0	916.2	947.2	978.9	1106.1	1277.7
27.5°	1135.5	1133.9	1069.5	1009.9	993.2	995.6	978.2	998.8	1008.3	1114.8	1335.7
30°	1264.2	1249.9	1201.4	1117.2	1103.7	1088.6	1050.5	1049.7	1069.5	1164.1	1416.0
32.5°	1348.4	1330.2	1296.8	1236.4	1199.1	1200.6	1140.3	1139.5	1122.0	1218.1	1485.9
35°	1431.1	1403.3	1394.5	1332.5	1295.2	1299.2	1250.7	1244.3	1212.6	1300.0	1601.1
37.5°	1530.4	1505.8	1519.3	1472.4	1426.3	1407.2	1385.0	1377.0	1335.7	1415.2	1758.4
40°	1640.1	1632.1	1623.4	1600.3	1572.5	1574.1	1550.3	1542.3	1481.1	1554.2	1909.4
42.5°	1787.8	1757.7	1712.4	1727.5	1741.8	1756.9	1748.9	1728.3	1664.7	1695.7	2077.9
45°	1925.3	1885.6	1802.2	1806.9	1865.7	1877.6	1973.8	1971.4	1843.5	1875.3	2269.4
47.5°	2018.3	2000.0	1949.9	1944.4	2028.6	2027.8	2201.0	2201.0	2031.8	2054.0	2475.2
50°	2156.5	2108.9	2087.4	2115.2	2158.1	2187.5	2433.1	2448.2	2216.9	2240.8	2744.5
52.5°	2318.6	2259.0	2205.0	2276.5	2352.8	2371.9	2662.7	2656.3	2359.2	2457.7	3060.0
55°	2452.9	2422.7	2385.4	2426.7	2551.5	2575.3	2893.1	2834.3	2501.4	2637.3	3211.8
57.5°	2609.5	2627.7	2635.7	2625.4	2773.9	2811.3	3156.2	2987.7	2623.8	2758.1	3300.8
60°	2845.5	2856.6	2866.9	2891.5	3048.9	3101.3	3364.3	3180.0	2700.8	2828.0	3307.9
62.5°	3204.6	3161.7	3184.8	3269.8	3396.1	3455.7	3671.1	3315.1	2759.6	2870.1	3074.3
65°	3615.4	3557.4	3533.6	3643.2	3970.6	3922.9	4054.0	3416.0	2674.6	2712.8	2607.1
67.5°	4031.8	4038.2	3977.0	4197.1	4598.4	4598.4	4410.0	3464.5	2444.2	2198.7	1828.4
70°	4362.4	4382.2	4415.6	4842.3	5478.0	5574.1	4851.0	3265.8	1974.6	1463.7	999.6
72.5°	4357.6	4298.0	4468.8	5254.7	6277.3	6197.1	4943.2	2582.4	1232.4	716.7	458.5
73°	4259.9	4209.8	4396.5	5250.7	6309.9	6234.4	4875.7	2380.6	1087.0	621.4	407.6
75°	3478.8	3388.2	3706.0	4755.7	5837.9	5895.9	4142.2	1552.6	595.9	383.0	286.9
77.5°	1586.0	1625.8	2039.7	3190.3	4499.0	4567.4	2723.1	671.4	326.6	268.6	211.4
80°	509.3	534.8	793.8	1586.0	2820.0	2943.2	1258.6	305.1	232.8	205.8	158.1
82.5°	194.7	193.9	332.9	659.5	1336.5	1415.2	460.1	185.9	173.2	151.8	112.0
85°	68.3	71.5	125.5	260.6	526.0	550.7	159.7	103.3	120.0	101.7	64.4
87.5°	23.8	24.6	44.5	94.6	181.2	191.5	44.5	41.3	59.6	58.8	32.6
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: P478307

CATALOG NUMBER: IFLD-S-SA2A-830-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5
2.5°	1088.6	1095.8	1098.1	1126.7	1126.7	1126.7	1137.9	1137.9	1134.7	1126.7	1145.8
5°	1093.4	1106.1	1130.7	1155.3	1161.7	1167.3	1182.4	1169.7	1174.4	1166.5	1173.6
7.5°	1106.9	1124.4	1170.4	1185.5	1175.2	1187.1	1171.2	1162.5	1153.8	1156.9	1145.8
10°	1129.9	1152.2	1173.6	1201.4	1181.6	1169.7	1137.1	1129.1	1101.3	1091.8	1100.5
12.5°	1158.5	1185.5	1222.1	1211.8	1173.6	1139.5	1104.5	1071.1	1054.4	1030.6	1037.0
15°	1187.1	1218.1	1223.7	1206.2	1158.5	1115.6	1052.1	1005.2	988.5	967.0	978.2
17.5°	1218.1	1247.5	1238.0	1192.7	1128.3	1063.2	990.9	944.8	909.8	896.3	896.3
20°	1264.2	1278.5	1263.4	1170.4	1091.8	1006.0	936.0	883.6	848.6	843.1	834.3
22.5°	1300.0	1323.0	1255.5	1137.9	1038.5	931.3	851.0	831.2	820.8	812.1	801.0
25°	1346.1	1345.3	1241.2	1107.7	947.2	842.3	793.8	792.2	787.4	784.3	799.4
27.5°	1389.8	1371.5	1224.5	1033.0	852.6	774.7	748.5	766.0	773.1	768.4	774.7
30°	1458.9	1428.7	1200.6	953.5	769.2	706.4	711.2	735.0	746.9	754.1	744.5
32.5°	1532.0	1485.9	1151.4	870.9	695.3	663.5	674.6	699.2	713.6	721.5	730.2
35°	1637.7	1530.4	1101.3	762.8	642.0	637.3	643.6	657.1	677.8	683.4	685.7
37.5°	1768.0	1597.9	1033.8	676.2	600.7	606.3	612.6	617.4	618.2	628.5	624.6
40°	1898.3	1655.2	935.2	593.6	557.8	588.0	584.8	576.1	568.9	559.4	557.0
42.5°	2012.7	1705.2	825.6	523.6	519.7	568.9	558.6	536.4	519.7	512.5	500.6
45°	2141.4	1775.9	715.1	479.9	490.3	545.9	542.7	508.5	487.1	461.7	458.5
47.5°	2308.3	1849.8	609.5	434.6	462.5	537.1	538.7	495.0	464.0	429.9	425.1
50°	2522.1	1956.3	529.2	415.6	445.8	524.4	526.8	476.8	436.2	401.3	398.1
52.5°	2727.1	2065.2	462.5	386.2	434.6	509.3	514.9	460.1	413.2	369.5	371.9
55°	2830.4	2025.4	405.2	364.7	409.2	484.7	505.4	448.2	378.2	348.0	347.2
57.5°	2853.4	1927.7	360.0	342.5	387.8	458.5	489.5	412.4	362.3	336.9	333.7
60°	2777.9	1756.9	324.2	318.6	360.7	431.5	452.9	393.3	346.4	325.8	321.0
62.5°	2592.0	1579.7	299.6	307.5	337.7	402.1	429.9	379.8	331.3	317.0	306.7
65°	2125.6	1299.2	279.7	286.1	313.9	373.5	415.6	364.7	317.8	304.3	303.5
67.5°	1472.4	895.5	263.8	275.7	294.8	352.8	401.3	348.0	300.4	295.6	289.2
70°	754.1	477.6	243.1	252.7	274.1	326.6	375.8	330.6	282.1	281.3	273.3
72.5°	382.2	279.7	219.3	233.6	248.7	292.4	344.1	307.5	259.0	250.3	237.6
73°	330.6	259.0	215.3	228.1	242.4	282.9	334.5	301.9	255.9	243.1	231.2
75°	240.8	204.2	193.1	205.8	216.9	255.1	302.7	276.5	235.2	221.7	210.6
77.5°	180.4	157.3	160.5	174.8	184.3	220.1	269.4	250.3	213.0	194.7	189.9
80°	132.7	120.0	132.7	146.2	153.4	193.9	245.5	216.9	179.6	158.9	154.9
82.5°	94.6	87.4	102.5	111.2	114.4	160.5	220.9	173.2	135.9	108.9	100.1
85°	54.0	53.2	69.1	68.3	70.7	93.8	145.4	115.2	87.4	66.7	65.2
87.5°	23.8	26.2	35.0	27.8	29.4	44.5	62.0	42.9	35.8	19.9	15.1
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)