

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: P476630

Luminaire Tested: **IFLD-S-SA2A-750-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476630  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-750-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

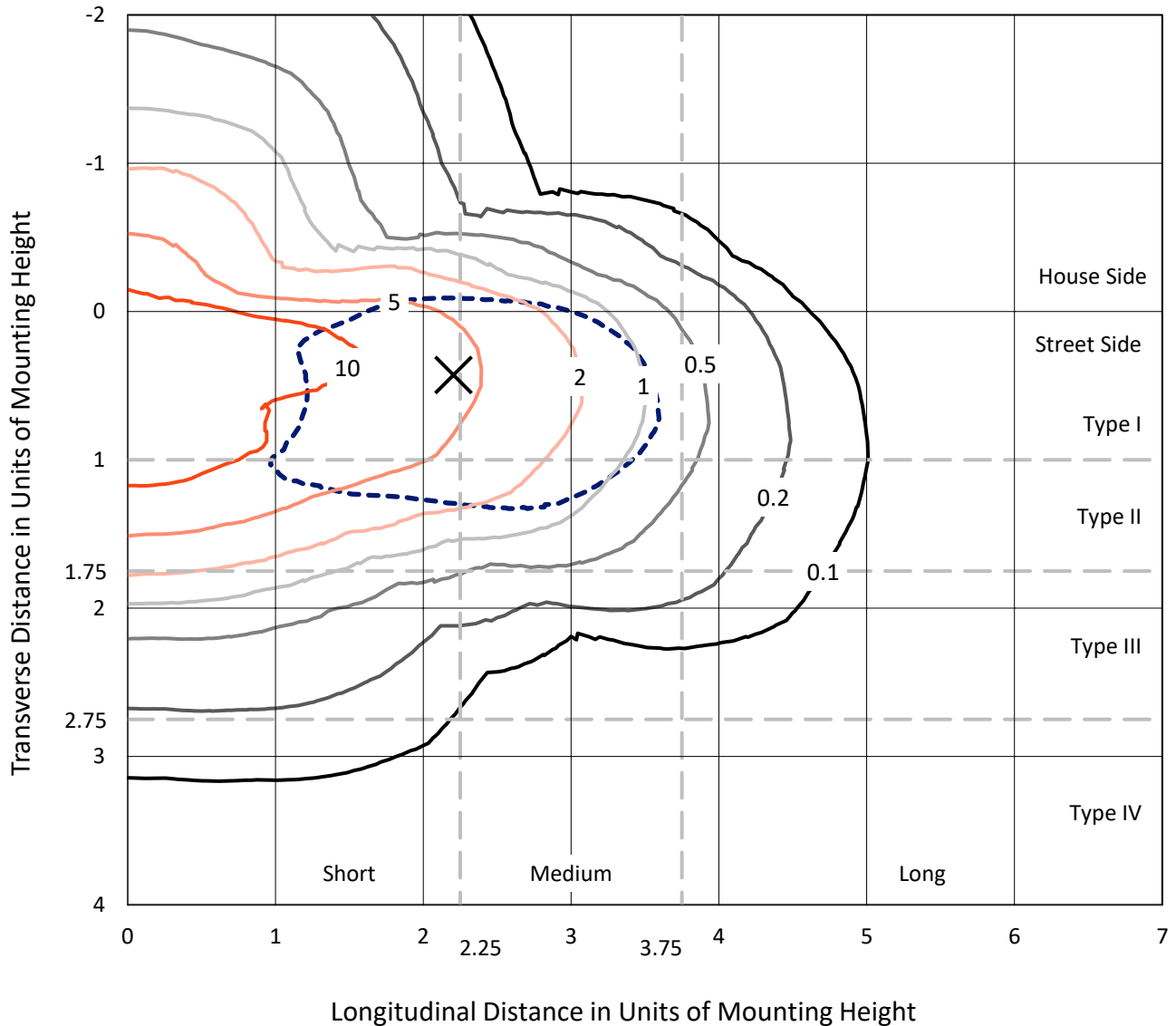
Lumens per Lamp: N/A  
Luminaire Lumens: 9432.2 lumens  
Efficiency: N/A  
Efficacy: 147.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

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

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### Iso-Footcandle Lines of Horizontal Illumination

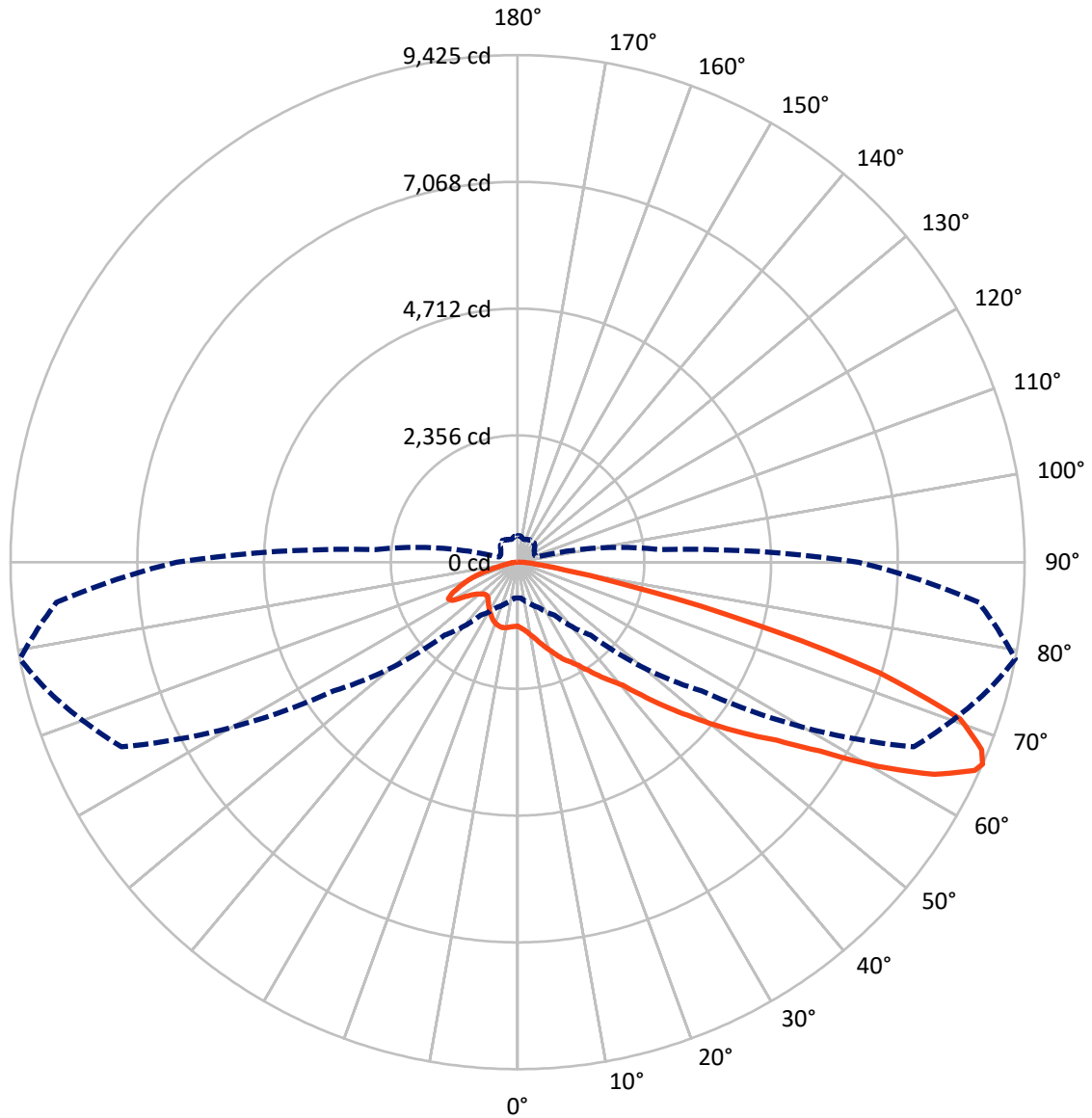
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1904.7	0.0	1904.7
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	7527.5	0.0	7527.5
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	9432.2	0.0	9432.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.1	1.2
10°-20°	361.6	3.8
20°-30°	620.8	6.6
30°-40°	959.0	10.2
40°-50°	1536.0	16.3
50°-60°	2293.4	24.3
60°-70°	2356.4	25.0
70°-80°	1044.6	11.1
80°-90°	143.3	1.5
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°	9432.2	100.0
0°-180°	9432.2	100.0

**Coefficient of Utilization**



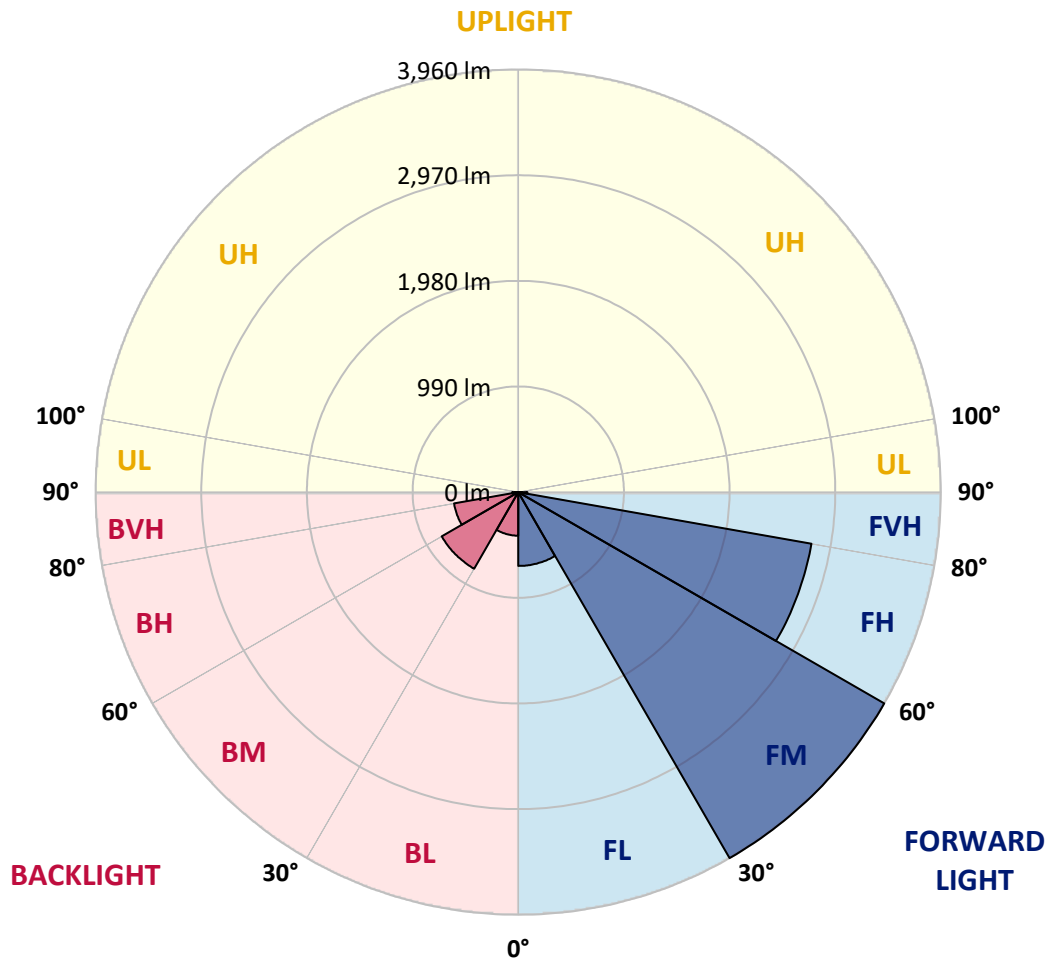
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	691.4	7.3			
FM (30°-60°)	3960.3	42.0			
FH (60°-80°)	2789.8	29.6			G2/5000
FVH (80°-90°)	86.0	0.9			G1/100
BL (0°-30°)	408.1	4.3	B1/500		
BM (30°-60°)	828.1	8.8	B1/1000		
BH (60°-80°)	611.2	6.5	B2/1000		G2/1000
BVH (80°-90°)	57.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0
2.5°	1266.8	1267.8	1267.8	1263.7	1264.7	1267.8	1256.4	1231.5	1231.5	1227.3	1220.1
5°	1344.6	1339.4	1332.1	1333.2	1329.0	1329.0	1316.6	1292.7	1272.0	1263.7	1241.9
7.5°	1355.0	1360.1	1359.1	1371.6	1377.8	1377.8	1384.0	1364.3	1333.2	1313.5	1291.7
10°	1375.7	1362.2	1361.2	1390.2	1399.6	1421.4	1446.3	1435.9	1409.9	1381.9	1352.9
12.5°	1388.2	1396.5	1396.5	1411.0	1432.8	1464.9	1508.5	1528.2	1487.8	1458.7	1414.1
15°	1406.8	1395.4	1428.6	1441.1	1482.6	1505.4	1567.6	1618.5	1591.5	1556.2	1485.7
17.5°	1415.1	1407.9	1426.5	1449.4	1519.9	1554.1	1629.9	1700.4	1677.6	1654.8	1582.2
20°	1457.7	1456.6	1464.9	1483.6	1534.4	1601.9	1696.3	1793.8	1802.1	1760.6	1662.0
22.5°	1561.4	1547.9	1547.9	1540.7	1562.4	1632.0	1759.6	1894.4	1931.8	1883.0	1752.3
25°	1656.9	1675.5	1664.1	1630.9	1622.6	1658.9	1805.2	2001.3	2051.1	2005.5	1874.7
27.5°	1779.3	1785.5	1805.2	1760.6	1703.5	1715.0	1855.0	2061.5	2164.2	2103.0	1944.2
30°	1955.7	1944.2	1940.1	1890.3	1815.6	1800.0	1912.1	2149.7	2312.5	2226.4	2026.2
32.5°	2075.0	2103.0	2101.9	2033.5	1943.2	1909.0	1982.6	2232.7	2471.3	2391.4	2177.7
35°	2311.5	2340.6	2317.7	2217.1	2111.3	2042.8	2084.3	2340.6	2652.8	2590.6	2306.3
37.5°	2613.4	2681.9	2633.1	2447.4	2298.0	2223.3	2225.4	2457.8	2838.6	2787.7	2444.3
40°	2822.0	2914.3	2846.9	2672.6	2513.8	2443.3	2415.3	2596.8	3060.6	3006.6	2660.1
42.5°	3080.3	3157.1	3121.8	2949.6	2763.9	2703.7	2647.7	2829.2	3399.8	3374.9	2937.1
45°	3362.5	3398.8	3387.4	3278.4	3072.0	3051.2	2927.8	3135.3	3799.3	3809.6	3283.6
47.5°	3625.0	3644.7	3666.5	3587.6	3459.0	3476.6	3250.4	3463.1	4187.3	4255.8	3669.6
50°	3692.4	3759.8	3810.7	3863.6	3891.6	4010.9	3606.3	3865.7	4633.4	4766.2	4099.1
52.5°	3623.9	3618.7	3773.3	3939.3	4219.4	4469.5	4090.8	4365.7	5027.6	5290.1	4492.3
55°	3312.7	3302.3	3551.3	3771.2	4318.0	4724.7	4782.8	5031.8	5503.8	5845.2	5024.5
57.5°	2768.0	2703.7	2975.5	3336.5	4104.3	4752.7	5477.9	6020.5	6236.3	6625.4	5836.9
60°	1860.2	1833.2	2093.6	2524.2	3332.4	4355.4	5893.9	7258.2	7268.6	7706.4	7097.4
62.5°	1145.4	1150.6	1317.6	1640.3	2333.3	3452.7	5714.5	8247.0	8249.0	8687.9	8134.9
65°	749.1	752.2	887.0	1065.5	1457.7	2341.6	4725.7	8324.8	8930.7	9338.4	8610.1
66°	667.1	668.1	784.3	929.6	1207.6	1916.2	4173.8	8122.5	9084.2	9424.5	8603.8
67.5°	562.3	575.8	669.2	781.2	942.0	1376.7	3311.6	7537.3	9005.4	9304.1	8408.8
70°	439.9	447.2	520.8	634.9	706.5	796.8	1968.1	6144.0	8242.8	8727.3	7699.2
72.5°	352.7	359.0	415.0	515.6	573.7	525.0	1071.7	4458.1	6511.2	7027.9	6055.8
75°	297.8	298.8	325.8	405.7	472.1	394.2	570.6	2861.4	4177.9	4418.6	3710.0
77.5°	240.7	244.8	263.5	309.2	379.7	310.2	340.3	1602.9	2097.8	2115.4	1715.0
80°	196.1	198.2	209.6	225.1	289.5	229.3	230.3	782.3	899.5	878.7	697.2
82.5°	154.6	156.7	170.1	167.0	212.7	163.9	143.2	376.6	414.0	405.7	320.6
85°	87.1	87.1	133.8	133.8	134.9	103.7	87.1	177.4	218.9	204.4	150.4
87.5°	28.0	29.0	40.5	42.5	67.4	46.7	42.5	66.4	103.7	91.3	53.9
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°	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0
2.5°	1215.9	1199.3	1192.1	1168.2	1162.0	1146.4	1139.2	1129.8	1126.7	1113.2	1125.7
5°	1225.3	1220.1	1191.0	1160.9	1138.1	1127.7	1112.2	1091.4	1089.4	1070.7	1068.6
7.5°	1264.7	1247.1	1196.2	1164.1	1118.4	1092.5	1058.2	1047.9	1034.4	1028.1	1041.6
10°	1325.9	1281.3	1205.6	1124.6	1068.6	1037.5	1012.6	1005.3	1006.4	1002.2	996.0
12.5°	1369.5	1326.9	1190.0	1091.4	1018.8	988.7	986.6	993.9	1005.3	1000.1	1007.4
15°	1431.7	1351.8	1178.6	1036.4	978.3	970.0	969.0	990.8	989.8	989.8	988.7
17.5°	1489.8	1376.7	1137.1	988.7	935.8	942.0	949.3	948.3	958.6	962.8	970.0
20°	1563.5	1405.8	1079.0	941.0	903.6	901.6	900.5	901.6	911.9	918.2	913.0
22.5°	1627.8	1412.0	1030.2	895.3	865.3	857.0	843.5	857.0	851.8	853.8	860.1
25°	1683.8	1413.1	960.7	861.1	826.9	808.2	797.8	796.8	787.4	786.4	786.4
27.5°	1730.5	1377.8	899.5	813.4	781.2	763.6	762.5	751.1	727.3	711.7	713.8
30°	1766.8	1350.8	857.0	771.9	740.8	737.7	728.3	702.4	671.3	651.5	651.5
32.5°	1831.2	1296.9	798.9	729.4	713.8	709.6	687.9	665.0	636.0	617.3	614.2
35°	1878.9	1247.1	760.5	693.0	685.8	677.5	658.8	633.9	625.6	621.5	624.6
37.5°	1932.8	1191.0	713.8	661.9	669.2	653.6	631.8	620.4	649.5	642.2	645.3
40°	2018.9	1151.6	668.1	643.2	650.5	632.9	604.9	600.7	637.0	611.1	604.9
42.5°	2176.6	1150.6	640.1	615.2	620.4	606.9	582.0	580.0	594.5	563.4	554.0
45°	2372.7	1186.9	619.4	594.5	590.3	588.3	580.0	570.6	558.2	517.7	507.3
47.5°	2607.2	1246.0	615.2	563.4	568.5	586.2	575.8	551.9	519.8	493.8	488.7
50°	2891.5	1368.4	604.9	540.5	549.9	577.9	569.6	536.4	507.3	490.7	487.6
52.5°	3205.8	1523.0	591.4	505.3	526.0	570.6	574.8	543.6	501.1	486.6	484.5
55°	3576.2	1751.3	575.8	466.9	498.0	563.4	574.8	522.9	492.8	492.8	490.7
57.5°	4307.6	2162.1	543.6	431.6	473.1	549.9	558.2	523.9	493.8	493.8	489.7
60°	5380.4	2803.3	482.4	404.6	449.2	531.2	545.7	508.4	482.4	488.7	487.6
62.5°	6219.7	2998.3	430.6	378.7	425.4	497.0	529.1	491.8	468.9	491.8	493.8
65°	6399.2	2801.2	377.6	350.7	392.2	463.8	505.3	467.9	449.2	493.8	495.9
66°	6334.9	2647.7	359.0	342.4	377.6	447.2	490.7	459.6	438.9	491.8	492.8
67.5°	6048.5	2417.3	338.2	324.7	357.9	423.3	474.1	448.2	422.3	485.5	476.2
70°	5426.0	2050.1	302.9	293.6	329.9	383.9	435.7	419.1	396.3	447.2	430.6
72.5°	4179.0	1638.2	265.6	266.6	297.8	343.4	397.4	385.9	366.2	392.2	381.8
75°	2544.9	1046.8	231.4	233.4	259.4	305.0	361.0	352.7	328.9	343.4	338.2
77.5°	1127.7	518.7	195.0	199.2	219.9	268.7	314.4	300.9	276.0	279.1	277.0
80°	437.8	245.9	158.7	163.9	177.4	214.8	260.4	248.0	226.2	222.0	219.9
82.5°	210.6	136.9	122.4	124.5	129.7	171.2	224.1	208.5	179.5	160.8	160.8
85°	105.8	85.1	86.1	78.8	86.1	116.2	151.5	126.6	104.8	93.4	95.4
87.5°	42.5	42.5	42.5	36.3	38.4	55.0	70.5	47.7	43.6	25.9	25.9
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)