

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: P480434

Luminaire Tested: **IFLD-S-SA6B-730-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480434
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-730-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

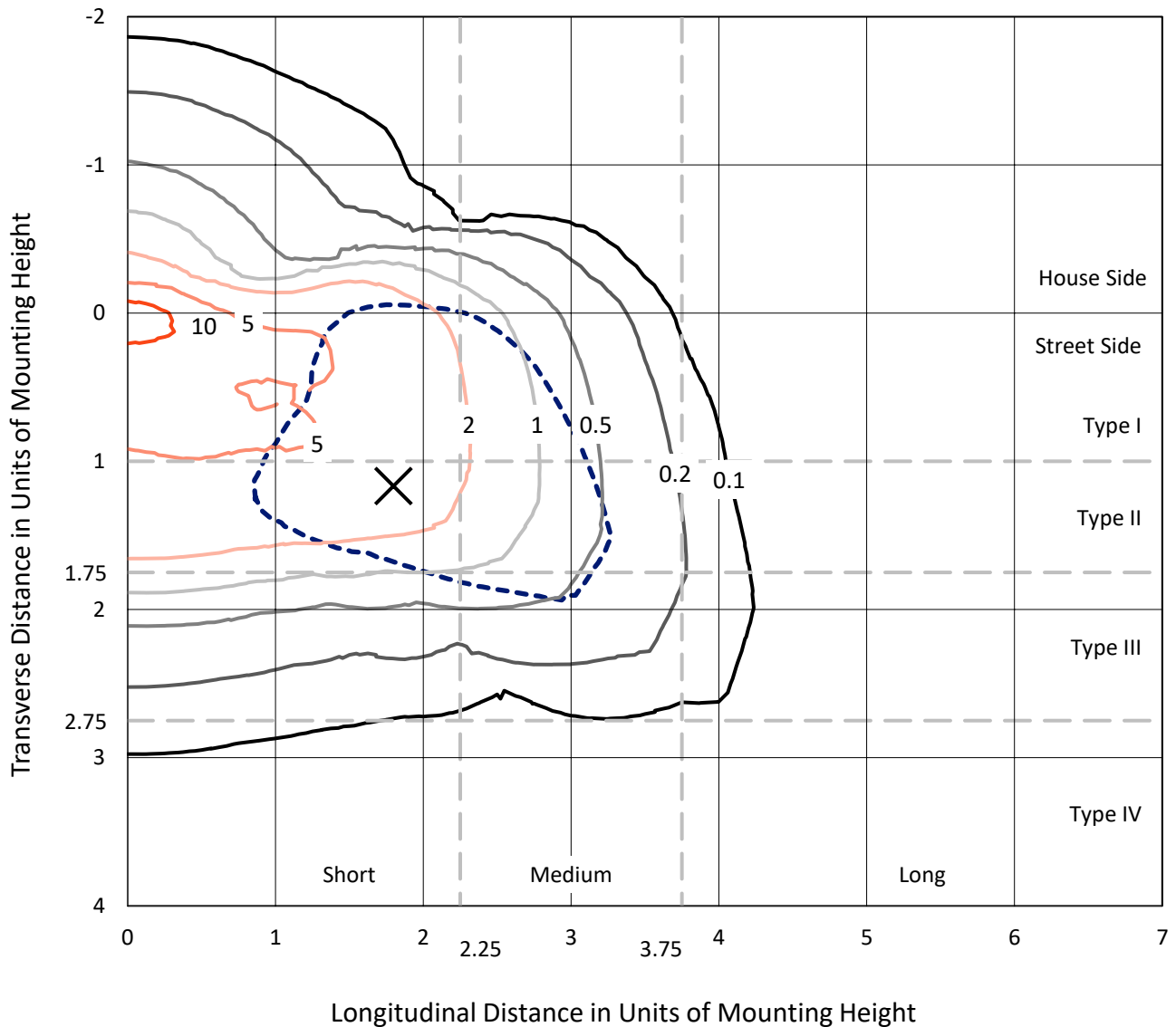
Lumens per Lamp: N/A
Luminaire Lumens: 29992 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9
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

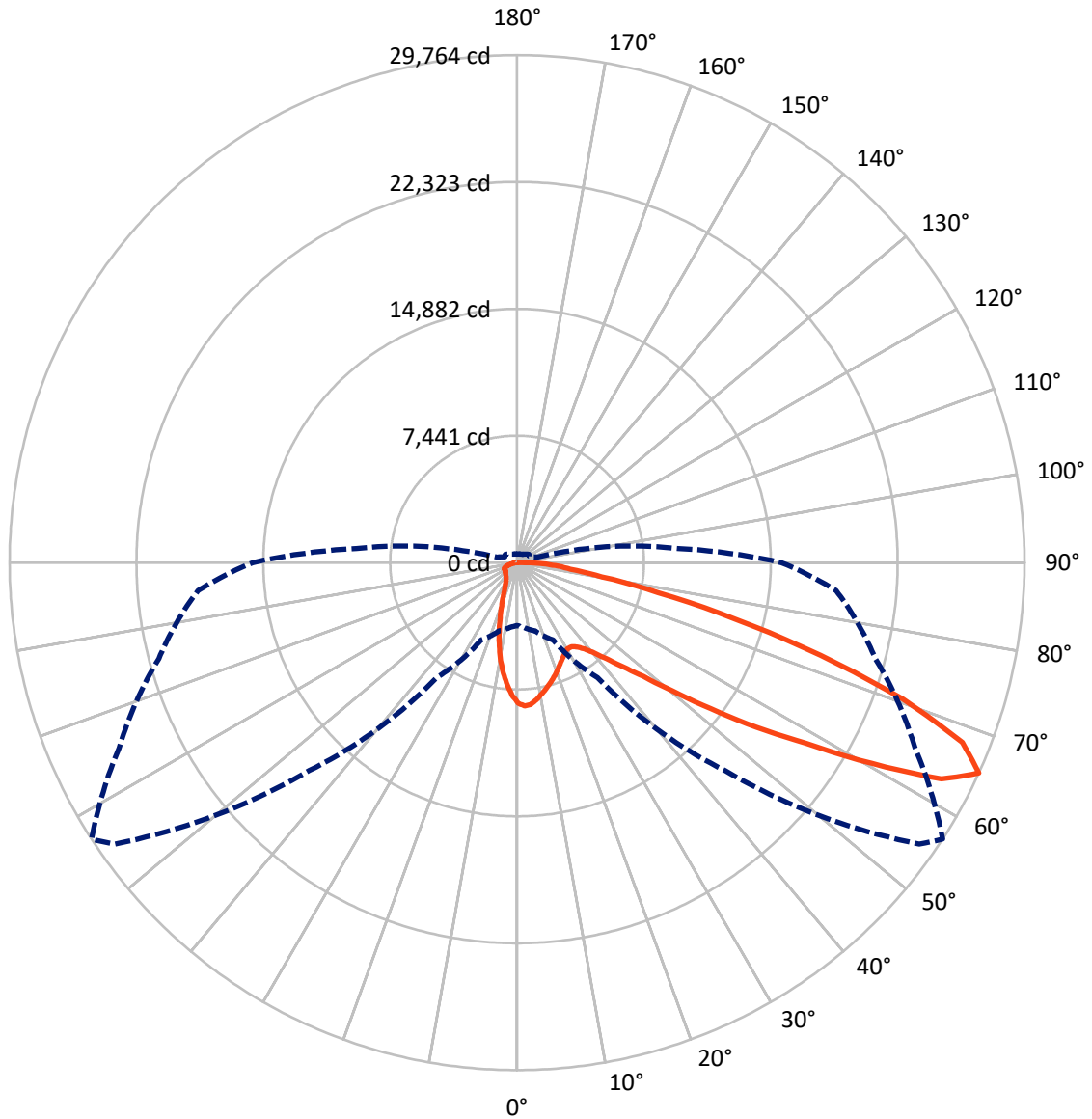
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4599.6	0.0	4599.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	25392.5	0.0	25392.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	29992.0	0.0	29992.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.7	2.3
10°-20°	1486.4	5.0
20°-30°	1921.8	6.4
30°-40°	2586.1	8.6
40°-50°	4123.6	13.7
50°-60°	7283.3	24.3
60°-70°	8012.6	26.7
70°-80°	3351.8	11.2
80°-90°	535.7	1.8
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°	29992.0	100.0
0°-180°	29992.0	100.0

Coefficient of Utilization



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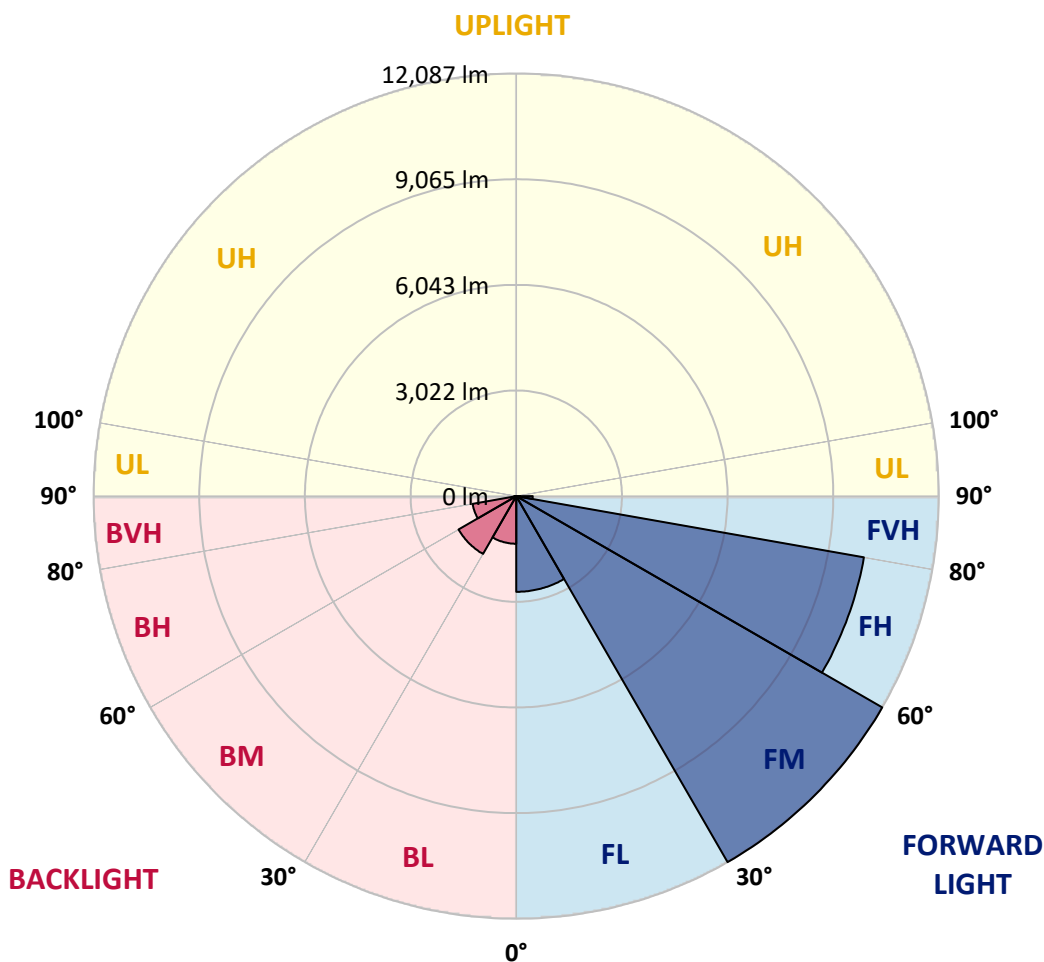
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2736.7	9.1			
FM (30°-60°)	12086.8	40.3			
FH (60°-80°)	10096.2	33.7			G4/12000
FVH (80°-90°)	472.8	1.6			G3/500
BL (0°-30°)	1362.2	4.5	B3/2500		
BM (30°-60°)	1906.3	6.4	B2/2500		
BH (60°-80°)	1268.2	4.2	B3/2500		G3/2500
BVH (80°-90°)	62.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8247.4	8247.4	8247.4	8247.4	8247.4	8247.4	8247.4	8247.4	8247.4	8247.4	8247.4
2.5°	8470.1	8483.6	8483.6	8510.6	8419.5	8463.4	8456.6	8416.1	8429.6	8358.8	8287.9
5°	8230.5	8220.4	8274.4	8281.1	8352.0	8372.2	8389.1	8362.1	8368.9	8213.6	8146.2
7.5°	7616.4	7613.0	7704.1	7781.7	7930.2	8068.5	8159.7	8132.7	8169.8	8071.9	7913.3
10°	6887.4	6965.1	7059.6	7137.2	7410.5	7586.0	7822.2	7845.8	7987.6	7963.9	7677.1
12.5°	6340.8	6374.5	6445.4	6668.1	6917.8	7208.0	7545.5	7575.9	7714.2	7781.7	7532.0
15°	5892.0	5922.3	6013.4	6178.8	6458.9	6803.1	7231.7	7309.3	7586.0	7609.6	7343.0
17.5°	5564.6	5588.2	5649.0	5814.3	6043.8	6485.9	6890.8	7029.2	7393.6	7508.4	7147.3
20°	5436.4	5385.8	5419.5	5524.1	5753.6	6094.4	6617.5	6739.0	7204.7	7430.8	6961.7
22.5°	5379.0	5335.2	5355.4	5348.7	5530.9	5773.8	6323.9	6452.1	7025.8	7339.6	6796.3
25°	5422.9	5422.9	5402.6	5385.8	5406.0	5564.6	6006.7	6205.8	6786.2	7262.0	6627.6
27.5°	5659.1	5568.0	5578.1	5507.3	5487.0	5487.0	5865.0	5983.1	6708.6	7218.2	6489.3
30°	5811.0	5854.8	5858.2	5753.6	5649.0	5460.0	5733.4	5848.1	6644.5	7272.1	6408.3
32.5°	6199.0	6178.8	6121.4	6101.2	5946.0	5733.4	5797.5	5875.1	6607.4	7393.6	6431.9
35°	6587.1	6577.0	6580.4	6570.2	6408.3	6094.4	5969.6	6074.2	6674.9	7606.2	6512.9
37.5°	6988.7	7015.7	7130.4	7130.4	6958.3	6617.5	6452.1	6421.8	6921.2	7953.8	6705.2
40°	7390.3	7457.7	7602.9	7832.3	7589.4	7272.1	7005.6	6958.3	7218.2	8419.5	7167.5
42.5°	7775.0	7886.3	8173.2	8514.0	8433.0	8115.8	7761.5	7707.5	7828.9	9111.3	7812.1
45°	8267.6	8362.1	8814.3	9337.4	9448.7	9168.6	8753.6	8709.7	8703.0	10123.6	8699.6
47.5°	9016.8	9118.0	9570.2	10096.6	10440.8	10484.7	10019.0	9971.8	9809.8	11490.3	9998.8
50°	9954.9	10120.3	10501.6	11115.8	11615.2	12084.3	11952.6	11814.3	11497.1	13079.7	11645.6
52.5°	10639.9	10842.4	11358.7	12145.0	13025.7	13771.5	14244.0	14244.0	13515.1	14824.4	13626.4
55°	10822.2	10943.7	11594.9	12732.2	14240.6	16127.0	17115.7	17041.5	15917.7	16660.1	15931.2
57.5°	10096.6	10255.2	11044.9	12236.1	14878.4	18330.5	19967.2	19984.1	18543.1	18792.8	18205.7
60°	8098.9	8149.5	9080.9	10673.7	14264.2	20105.5	23861.4	23925.5	21529.6	20692.7	19363.1
62.5°	5598.4	5760.4	6462.3	7859.3	11817.7	19906.4	27617.3	27934.5	23922.2	21695.0	19545.4
65°	3685.0	3782.9	4157.4	5007.8	8227.1	17254.1	28784.9	29763.5	25751.2	21752.3	18782.7
67.5°	2672.6	2689.5	2800.9	3239.6	4943.7	12408.2	26790.5	28170.7	26436.2	21273.1	16994.2
70°	2159.7	2173.2	2213.7	2493.8	3192.3	7764.8	21850.2	24013.3	24381.1	19002.1	13687.2
72.5°	1754.8	1771.6	1822.3	2085.5	2632.1	4319.4	15978.5	18614.0	19832.2	14058.4	9097.8
75°	1380.2	1393.7	1515.2	1775.0	2473.5	2966.2	10599.4	13181.0	13346.3	8217.0	4258.7
77.5°	944.9	968.5	1117.0	1505.0	2328.4	2595.0	6607.4	8443.1	7575.9	3215.9	1464.6
80°	600.7	634.4	722.2	1140.6	2058.5	2476.9	4110.2	5041.6	3317.2	1100.1	705.3
82.5°	354.3	388.1	475.8	739.0	1616.4	2298.1	2895.4	3155.2	1555.7	563.5	425.2
85°	195.7	219.3	286.8	445.4	948.2	2041.6	2318.3	2264.3	890.9	300.3	266.6
87.5°	64.1	74.2	104.6	178.9	391.4	961.7	1390.3	1305.9	462.3	138.4	104.6
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°	8247.4	8247.4	8247.4	8247.4	8247.4	8247.4	8247.4	8247.4	8247.4	8247.4	8247.4
2.5°	8240.6	8230.5	8078.7	7963.9	7768.2	7606.2	7542.1	7454.4	7451.0	7386.9	7370.0
5°	8041.5	7936.9	7704.1	7481.4	7133.8	6900.9	6688.4	6539.9	6479.1	6347.5	6317.2
7.5°	7785.1	7646.7	7289.0	6870.6	6462.3	6097.8	5767.1	5436.4	5250.8	5186.7	5115.8
10°	7518.5	7275.5	6745.7	6276.7	5706.4	5146.2	4626.5	4160.8	3907.7	3728.9	3651.3
12.5°	7305.9	6981.9	6307.0	5605.1	4852.6	4103.4	3499.4	3010.1	2723.3	2588.3	2527.5
15°	7066.3	6637.7	5827.8	4940.3	4002.2	3151.8	2561.3	2176.6	2061.8	1997.7	1987.6
17.5°	6813.2	6317.2	5308.2	4285.7	3172.1	2372.3	1991.0	1835.8	1785.1	1758.1	1744.6
20°	6577.0	6030.3	4775.0	3556.8	2483.7	1903.2	1724.4	1643.4	1640.0	1653.5	1650.2
22.5°	6242.9	5655.7	4248.6	2881.9	1984.2	1656.9	1542.2	1521.9	1542.2	1559.0	1565.8
25°	6053.9	5348.7	3661.4	2287.9	1640.0	1471.3	1434.2	1427.4	1457.8	1478.1	1474.7
27.5°	5858.2	5031.4	3114.7	1832.4	1437.6	1339.7	1332.9	1339.7	1370.1	1400.4	1397.1
30°	5706.4	4778.4	2601.8	1532.0	1282.3	1245.2	1238.5	1245.2	1262.1	1265.5	1265.5
32.5°	5581.5	4478.0	2166.5	1329.6	1187.8	1157.5	1164.2	1160.8	1164.2	1167.6	1171.0
35°	5507.3	4299.2	1808.8	1204.7	1110.2	1086.6	1083.2	1073.1	1076.5	1079.9	1076.5
37.5°	5665.9	4211.4	1525.3	1117.0	1056.2	1036.0	1029.2	1022.5	1012.4	1012.4	1012.4
40°	5905.5	4164.2	1353.2	1059.6	1015.7	992.1	971.9	965.1	965.1	968.5	971.9
42.5°	6381.3	4241.8	1235.1	1015.7	965.1	938.1	917.9	921.3	931.4	941.5	934.7
45°	7069.7	4478.0	1181.1	982.0	934.7	897.6	884.1	880.8	890.9	907.8	921.3
47.5°	7970.7	4845.8	1160.8	951.6	914.5	863.9	847.0	857.1	870.6	894.3	884.1
50°	9445.4	5672.6	1177.7	924.6	884.1	847.0	826.8	816.6	826.8	843.6	850.4
52.5°	11372.2	7174.3	1241.8	911.1	863.9	833.5	799.8	782.9	793.0	806.5	806.5
55°	13677.0	9226.0	1420.7	894.3	830.1	813.3	776.1	742.4	749.1	749.1	745.8
57.5°	15708.5	10774.9	1633.3	870.6	809.9	786.3	739.0	698.5	691.8	695.2	698.5
60°	16619.6	11186.6	1734.5	863.9	809.9	752.5	688.4	647.9	637.8	631.0	631.0
62.5°	16461.0	10474.6	1528.7	833.5	830.1	725.5	641.2	597.3	583.8	570.3	573.7
65°	15502.7	9458.9	1204.7	793.0	833.5	708.7	593.9	550.1	526.4	509.6	506.2
67.5°	13751.3	8075.3	955.0	762.6	799.8	678.3	553.4	502.8	482.6	465.7	458.9
70°	10758.1	6330.6	830.1	722.2	718.8	604.0	506.2	462.3	431.9	411.7	411.7
72.5°	6975.2	4002.2	712.0	641.2	620.9	506.2	438.7	411.7	388.1	371.2	371.2
75°	3158.6	1859.4	573.7	536.6	506.2	404.9	371.2	357.7	337.5	320.6	320.6
77.5°	1133.8	793.0	428.6	421.8	377.9	313.8	300.3	290.2	276.7	259.8	259.8
80°	634.4	502.8	320.6	307.1	263.2	232.8	216.0	216.0	209.2	199.1	195.7
82.5°	401.6	327.3	236.2	205.8	172.1	155.2	148.5	145.1	141.7	128.2	124.9
85°	253.1	222.7	155.2	121.5	101.2	77.6	74.2	70.9	64.1	57.4	57.4
87.5°	114.7	128.2	60.7	37.1	27.0	16.9	10.1	3.4	0.0	0.0	0.0
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)