

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: P480084

Luminaire Tested: **IFLD-S-SA6C-735-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480084
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-735-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

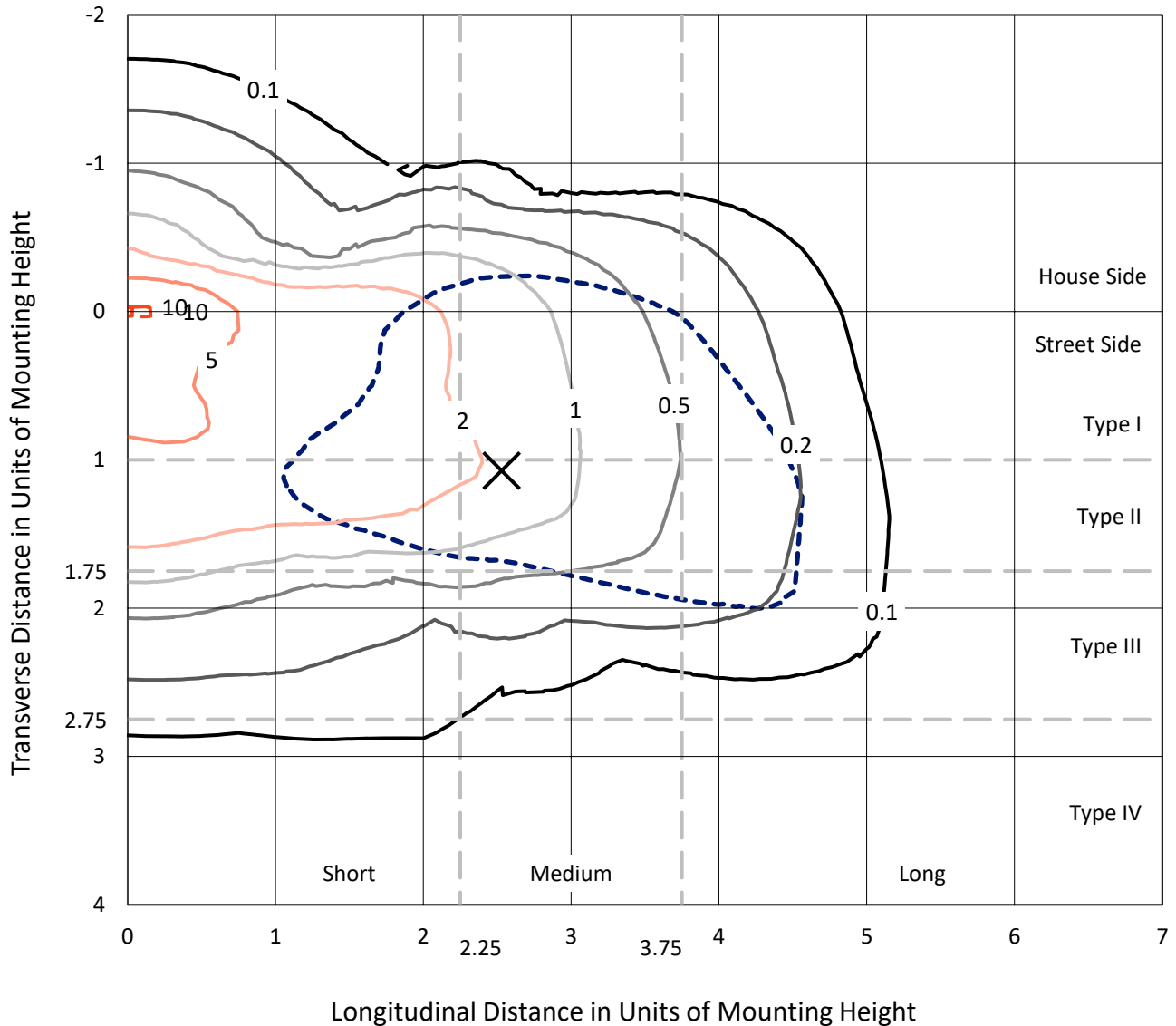
Lumens per Lamp: N/A
Luminaire Lumens: 40862 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 321.5
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

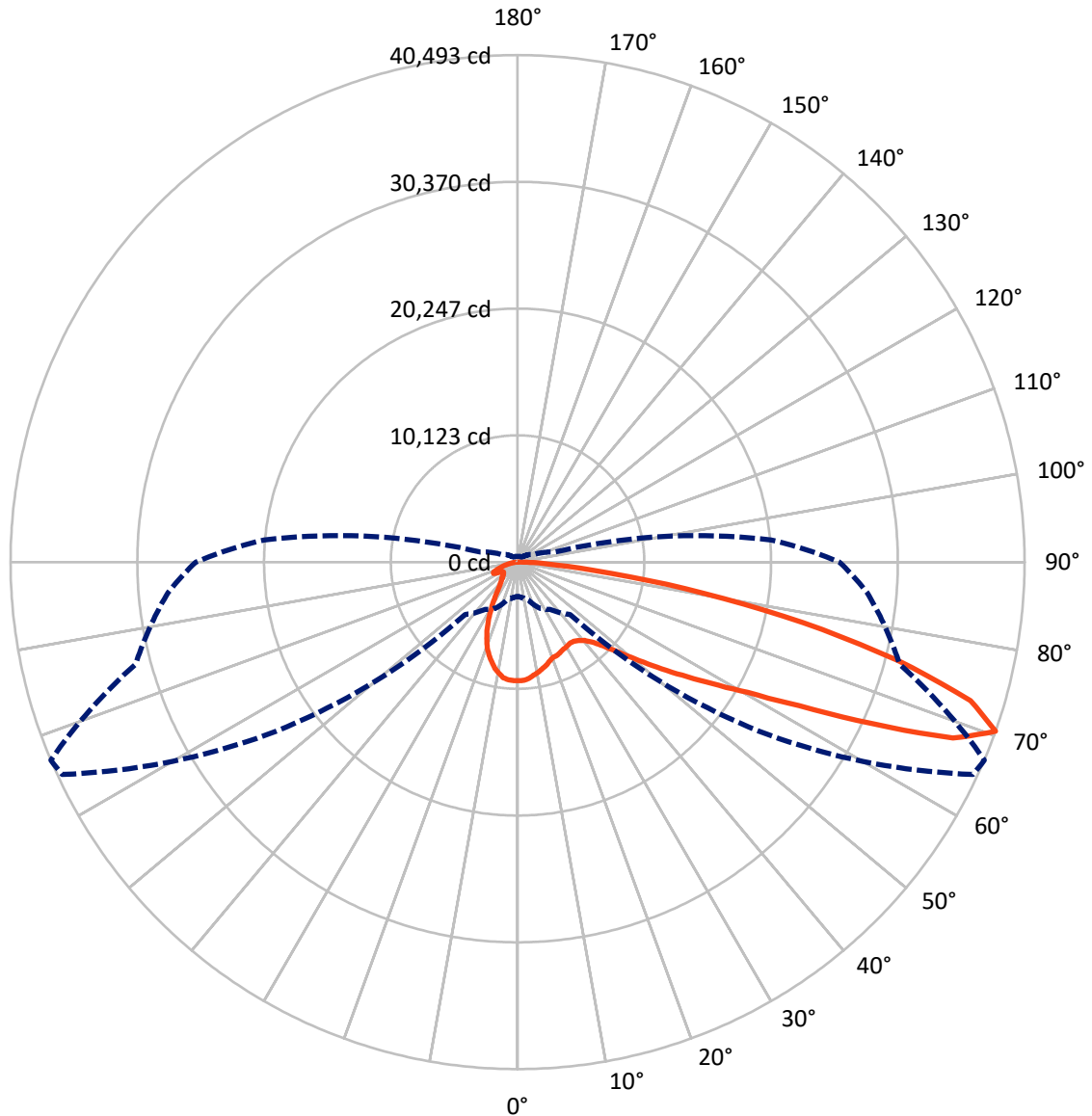
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7958.3	0.0	7958.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	32903.7	0.0	32903.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	40862.0	0.0	40862.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	825.3	2.0
10°-20°	1976.7	4.8
20°-30°	2669.4	6.5
30°-40°	3571.9	8.7
40°-50°	5252.4	12.9
50°-60°	8187.1	20.0
60°-70°	10085.2	24.7
70°-80°	7126.1	17.4
80°-90°	1168.0	2.9
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°	40862.0	100.0
0°-180°	40862.0	100.0



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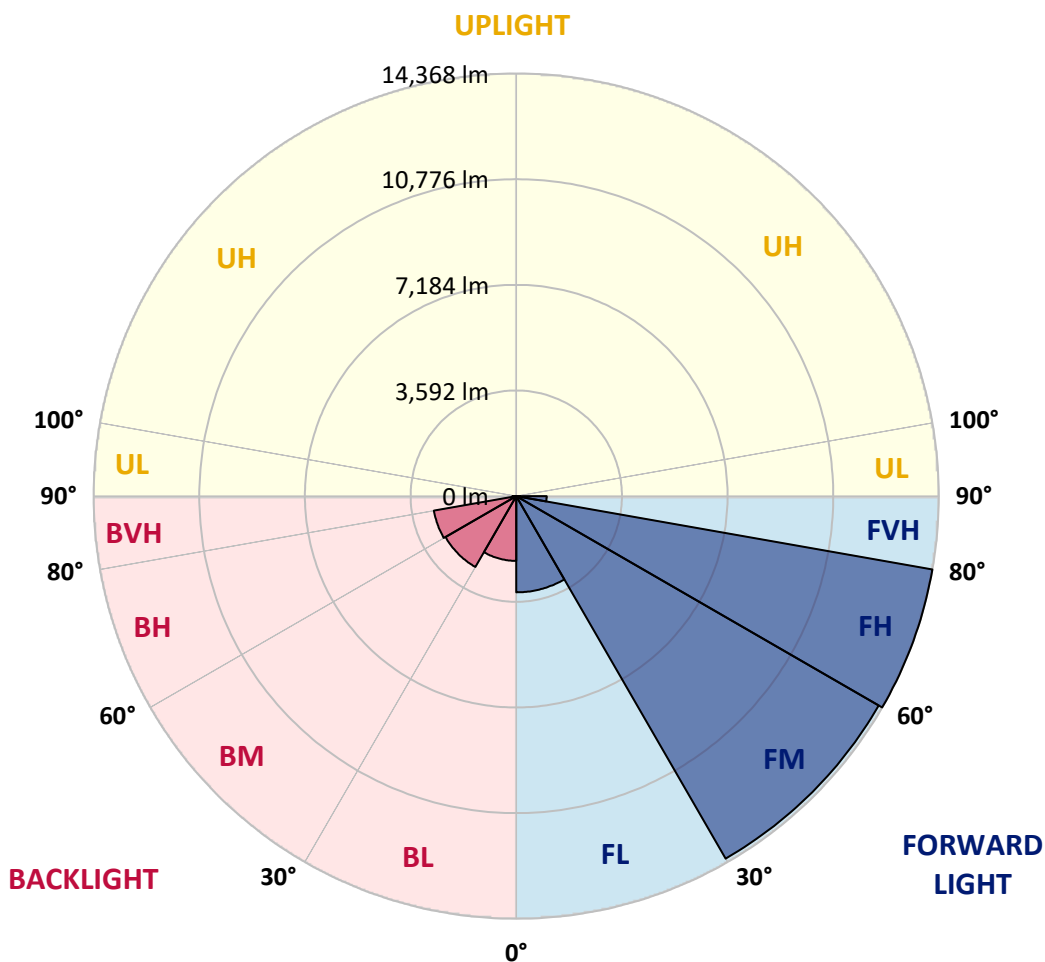
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3270.7	8.0			
FM (30°-60°)	14231.3	34.8			
FH (60°-80°)	14368.4	35.2			G5
FVH (80°-90°)	1033.3	2.5			G5
BL (0°-30°)	2200.7	5.4	B3/2500		
BM (30°-60°)	2780.0	6.8	B3/5000		
BH (60°-80°)	2842.8	7.0	B4/5000		G4/5000
BVH (80°-90°)	134.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	9459.4	9459.4	9459.4	9459.4	9459.4	9459.4	9459.4	9459.4	9459.4	9459.4	9459.4
2.5°	8808.0	8907.5	8943.7	8998.0	9138.2	9242.3	9305.6	9378.0	9463.9	9536.3	9581.6
5°	8192.7	8247.0	8333.0	8391.8	8568.2	8848.7	9038.7	9346.3	9337.3	9450.4	9622.3
7.5°	7595.6	7649.9	7690.6	7808.2	8061.5	8314.9	8663.2	9160.8	9124.7	9387.0	9653.9
10°	7224.6	7183.9	7197.5	7396.5	7595.6	7880.6	8319.4	8826.1	8957.3	9364.4	9744.4
12.5°	6876.3	6831.0	6939.6	7066.3	7310.6	7568.4	8093.2	8550.1	8749.2	9283.0	9785.1
15°	6659.1	6627.5	6763.2	6817.5	7107.0	7414.6	7785.6	8342.0	8559.2	9183.5	9721.8
17.5°	6537.0	6564.1	6613.9	6731.5	6917.0	7179.4	7586.5	8201.8	8296.8	9061.3	9708.2
20°	6559.6	6591.3	6595.8	6645.6	6772.2	6975.8	7392.0	8052.5	8115.8	9038.7	9744.4
22.5°	6740.6	6695.3	6713.4	6681.8	6718.0	6876.3	7242.7	7853.4	8097.7	8848.7	9667.5
25°	7012.0	6948.7	6939.6	6831.0	6763.2	6808.4	7215.6	7803.7	7962.0	8789.9	9663.0
27.5°	7491.5	7396.5	7396.5	7233.7	6957.7	6885.3	7138.7	7722.3	7862.5	8735.6	9558.9
30°	7953.0	7953.0	7957.5	7726.8	7419.2	7061.8	7170.3	7690.6	7781.1	8572.7	9418.7
32.5°	8513.9	8500.4	8477.7	8364.6	7889.6	7355.8	7324.2	7649.9	7695.1	8518.5	9378.0
35°	9061.3	9025.1	9201.6	9102.0	8618.0	7930.4	7482.5	7668.0	7767.5	8437.0	9251.3
37.5°	9473.0	9495.6	9862.0	9925.4	9509.2	8581.8	7930.4	7848.9	7943.9	8554.6	9251.3
40°	10006.8	10097.3	10441.1	10653.7	10400.4	9441.3	8640.6	8152.0	8219.9	8817.0	9450.4
42.5°	10708.0	10784.9	11223.7	11499.7	11427.3	10536.1	9341.8	8785.4	8731.1	9255.8	9748.9
45°	11635.4	11649.0	12092.3	12472.3	12621.6	11680.6	10454.7	9586.1	9540.8	10011.3	10296.3
47.5°	12739.2	12725.7	13001.6	13408.8	13811.4	13046.9	11734.9	10803.0	10640.2	11092.5	11205.6
50°	13806.9	13748.1	13811.4	14331.6	15105.2	14756.9	13291.1	12291.4	12128.5	12377.3	12571.8
52.5°	14395.0	14467.3	14295.4	14983.1	16480.5	16779.0	15354.0	14069.2	13929.0	14051.2	14390.4
55°	13983.3	14132.6	14019.5	14670.9	17082.1	19244.6	18023.1	16127.6	15946.7	15901.4	16457.9
57.5°	12232.6	12504.0	12526.6	13558.0	16874.0	21153.6	21777.9	18556.9	18285.5	17824.1	18398.6
60°	9391.6	9663.0	9871.1	11092.5	15091.6	22293.6	26129.9	22013.2	21117.4	19923.1	20267.0
62.5°	6582.2	6767.7	6975.8	7726.8	11635.4	21624.1	29893.8	26880.9	25229.6	22135.3	22565.1
65°	4795.3	4940.1	5152.7	5596.0	7147.7	17891.9	31640.0	32662.4	31097.1	24949.2	24894.9
67.5°	3610.1	3700.5	3981.0	4691.3	4953.6	11051.8	29830.4	38769.6	37502.9	28075.2	26767.8
70°	2732.4	2809.3	3071.7	4044.3	4627.9	5926.3	23533.2	40131.3	40493.2	31581.2	28025.4
72.5°	1881.9	1967.9	2261.9	3370.3	4406.3	4700.3	14770.4	36457.9	37828.6	33024.3	26677.3
75°	1153.6	1212.4	1384.3	2556.0	4374.6	4596.3	8129.4	29875.7	31327.8	30513.5	23338.7
77.5°	814.3	809.8	841.4	1497.4	3791.0	4623.4	5012.5	21891.0	23302.5	22488.2	15838.1
80°	592.6	597.2	628.8	895.7	2574.1	4700.3	3949.3	14661.9	15082.6	11725.9	6247.5
82.5°	357.4	375.5	452.4	606.2	1547.2	4243.4	3650.8	8147.5	7622.7	3763.9	1719.1
85°	190.0	190.0	266.9	384.5	823.3	3166.7	3515.0	3877.0	3248.1	1167.2	637.9
87.5°	45.2	45.2	76.9	153.8	330.2	1515.5	2397.7	1542.6	1235.0	393.6	262.4
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°	9459.4	9459.4	9459.4	9459.4	9459.4	9459.4	9459.4	9459.4	9459.4	9459.4	9459.4
2.5°	9563.5	9509.2	9577.0	9441.3	9332.8	9337.3	9169.9	9160.8	9138.2	9020.6	9061.3
5°	9672.0	9626.8	9549.9	9400.6	9160.8	8921.1	8776.3	8590.8	8513.9	8473.2	8491.3
7.5°	9776.1	9694.7	9473.0	9264.9	8893.9	8441.5	8179.2	7930.4	7613.7	7577.5	7514.2
10°	9803.2	9631.3	9346.3	8903.0	8409.9	7907.7	7310.6	6849.1	6604.9	6414.9	6342.5
12.5°	9762.5	9690.1	9142.7	8572.7	7826.3	7039.1	6342.5	5691.0	5238.6	5003.4	4940.1
15°	9758.0	9631.3	8916.6	8070.6	7116.1	6089.1	5098.4	4315.8	3840.8	3646.2	3646.2
17.5°	9762.5	9459.4	8649.6	7563.9	6279.1	4890.3	3800.1	3157.7	2895.3	2868.1	2890.8
20°	9672.0	9332.8	8369.2	6966.8	5229.6	3673.4	2759.6	2497.2	2497.2	2533.4	2546.9
22.5°	9590.6	9142.7	7925.8	6229.4	4162.0	2660.0	2243.8	2166.9	2252.9	2316.2	2343.4
25°	9477.5	8984.4	7473.4	5464.8	3166.7	2144.3	1949.8	1967.9	2049.3	2162.4	2153.4
27.5°	9314.7	8708.5	6935.1	4578.2	2356.9	1850.3	1800.5	1809.5	1895.5	1945.3	1936.2
30°	9129.2	8428.0	6437.5	3696.0	1868.4	1696.5	1691.9	1714.5	1728.1	1755.3	1750.7
32.5°	8893.9	8057.0	5908.2	2872.7	1682.9	1610.5	1592.4	1578.8	1592.4	1587.9	1574.3
35°	8726.6	7858.0	5369.8	2189.6	1578.8	1533.6	1520.0	1497.4	1479.3	1452.2	1447.6
37.5°	8681.3	7658.9	4804.4	1786.9	1497.4	1474.8	1429.5	1388.8	1366.2	1352.6	1343.6
40°	8654.2	7527.7	4252.4	1569.8	1429.5	1406.9	1352.6	1298.4	1275.7	1262.2	1266.7
42.5°	8749.2	7455.3	3691.5	1461.2	1370.7	1330.0	1271.2	1207.9	1203.4	1194.3	1207.9
45°	9083.9	7545.8	3171.2	1384.3	1311.9	1244.1	1167.2	1135.5	1131.0	1121.9	1131.0
47.5°	9843.9	7772.0	2727.9	1334.5	1248.6	1189.8	1108.3	1063.1	1058.6	1054.1	1054.1
50°	10893.5	8468.7	2356.9	1275.7	1207.9	1126.4	1049.5	999.8	990.7	972.6	972.6
52.5°	12540.2	9640.4	2135.3	1244.1	1135.5	1067.6	986.2	931.9	909.3	891.2	891.2
55°	14395.0	11092.5	2094.6	1189.8	1058.6	995.3	922.9	868.6	846.0	823.3	814.3
57.5°	16507.6	13015.2	2384.1	1153.6	1004.3	922.9	841.4	791.7	773.6	751.0	741.9
60°	18475.5	14933.3	3284.3	1099.3	954.5	855.0	773.6	723.8	701.2	678.6	678.6
62.5°	20751.0	17308.3	4808.9	1099.3	909.3	782.6	701.2	665.0	651.4	628.8	624.3
65°	23442.7	19764.8	5921.8	1167.2	895.7	719.3	633.3	597.2	583.6	570.0	565.5
67.5°	25492.0	21176.3	5093.9	1348.1	954.5	665.0	565.5	542.9	533.8	520.2	511.2
70°	25709.2	20316.7	3071.7	1456.7	1013.3	610.7	506.7	484.1	484.1	470.5	461.4
72.5°	23759.4	18027.6	2067.4	1298.4	918.3	547.4	447.9	429.8	420.7	411.7	407.1
75°	19882.4	15290.7	1633.1	1036.0	705.7	452.4	389.1	371.0	357.4	352.9	343.8
77.5°	13354.5	9939.0	1207.9	809.8	520.2	366.4	325.7	307.6	294.1	289.5	276.0
80°	5130.1	3786.5	778.1	588.1	366.4	289.5	257.9	239.8	230.7	217.1	208.1
82.5°	1511.0	1226.0	434.3	361.9	235.2	199.1	185.5	171.9	158.3	144.8	140.2
85°	624.3	561.0	266.9	190.0	144.8	117.6	108.6	95.0	81.4	72.4	63.3
87.5°	289.5	239.8	122.1	72.4	49.8	27.1	13.6	4.5	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)