

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: P480912

Luminaire Tested: **IFLD-L-SA7B-740-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480912
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-740-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

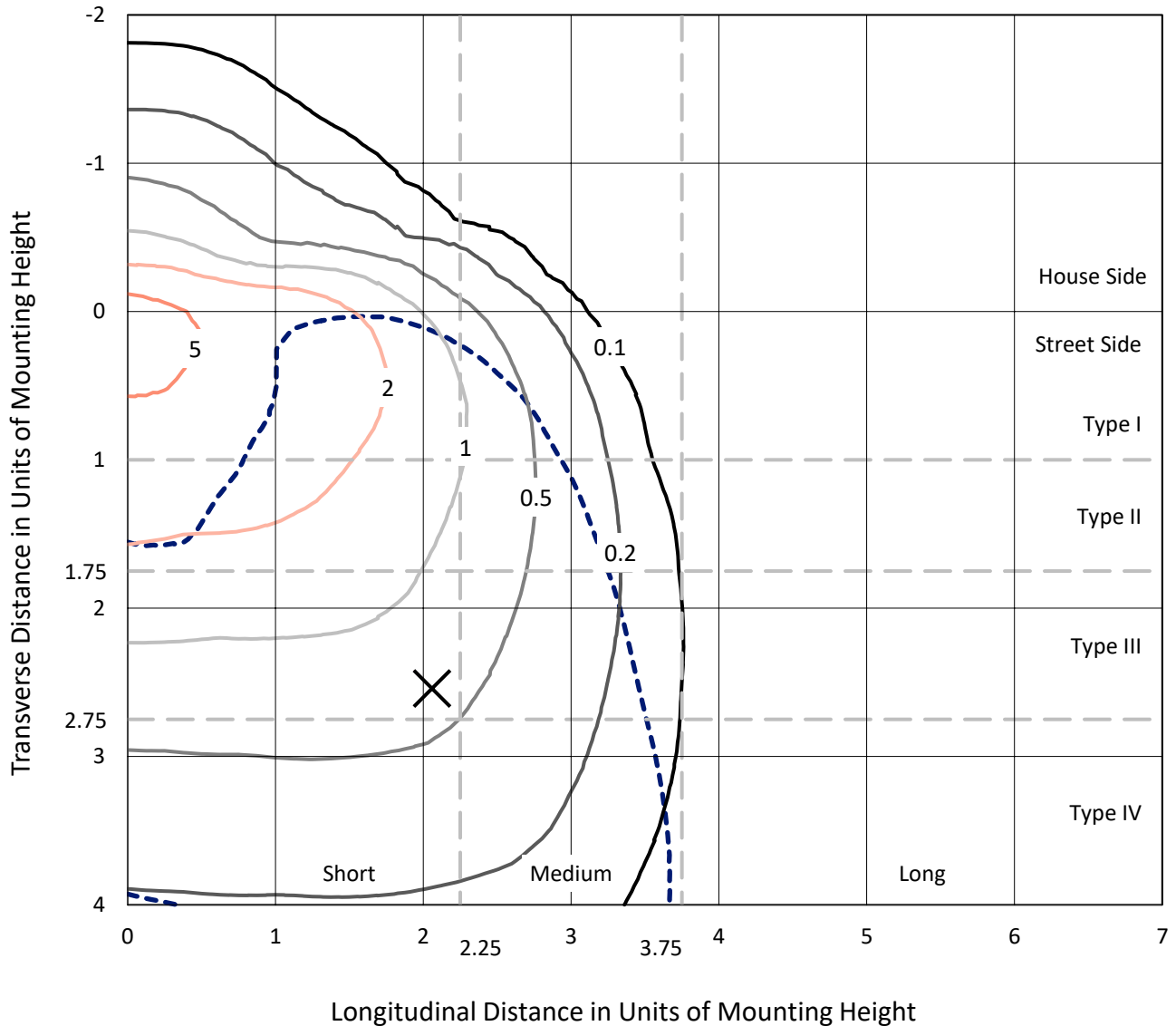
Lumens per Lamp: N/A
Luminaire Lumens: 34446.9 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 281
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

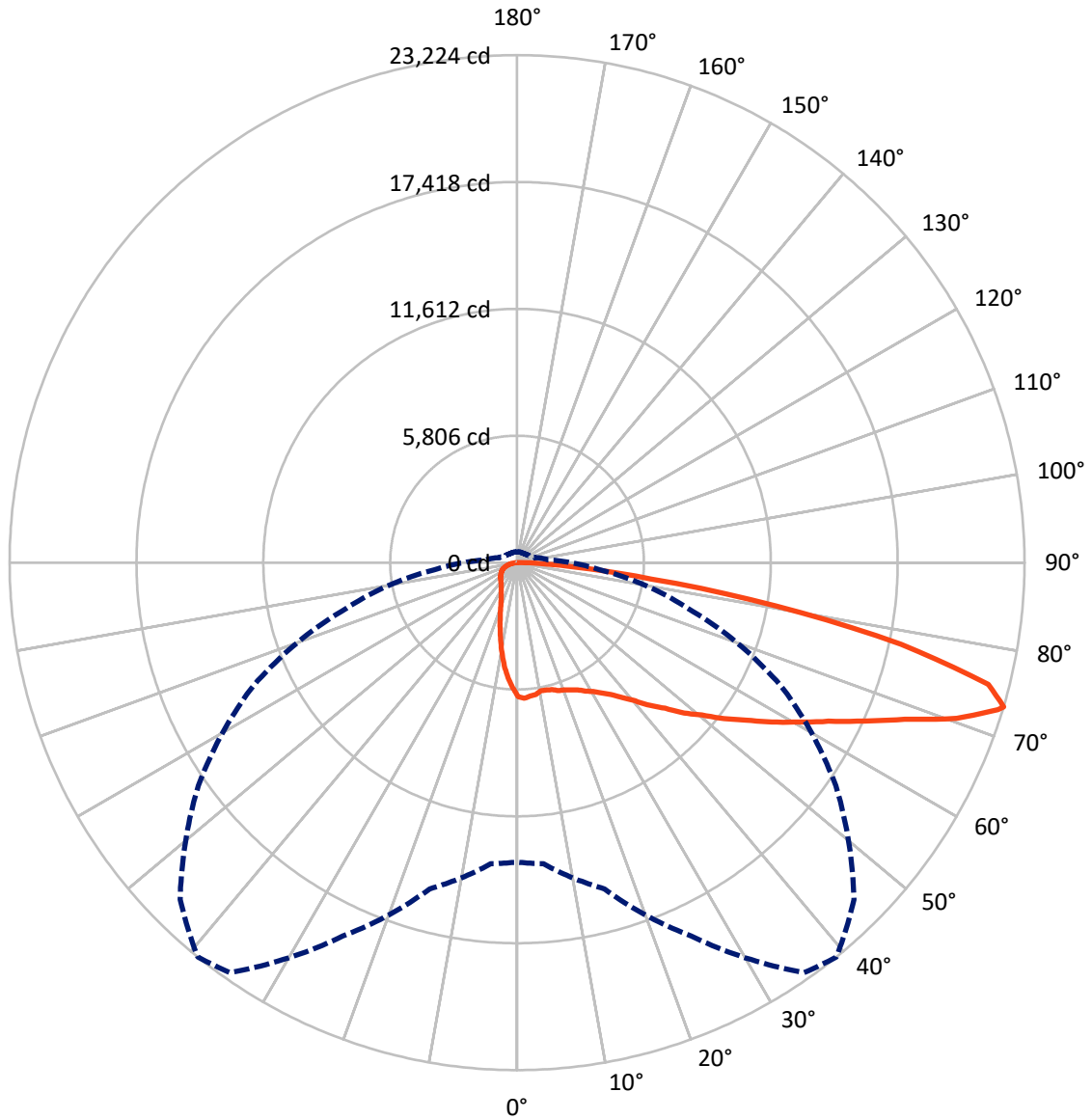
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4842.3	0.0	4842.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	29604.6	0.0	29604.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	34446.9	0.0	34446.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.3	1.5
10°-20°	1353.1	3.9
20°-30°	2067.8	6.0
30°-40°	3014.8	8.8
40°-50°	4555.7	13.2
50°-60°	6597.0	19.2
60°-70°	8381.8	24.3
70°-80°	6794.7	19.7
80°-90°	1149.6	3.3
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°	34446.9	100.0
0°-180°	34446.9	100.0

Coefficient of Utilization



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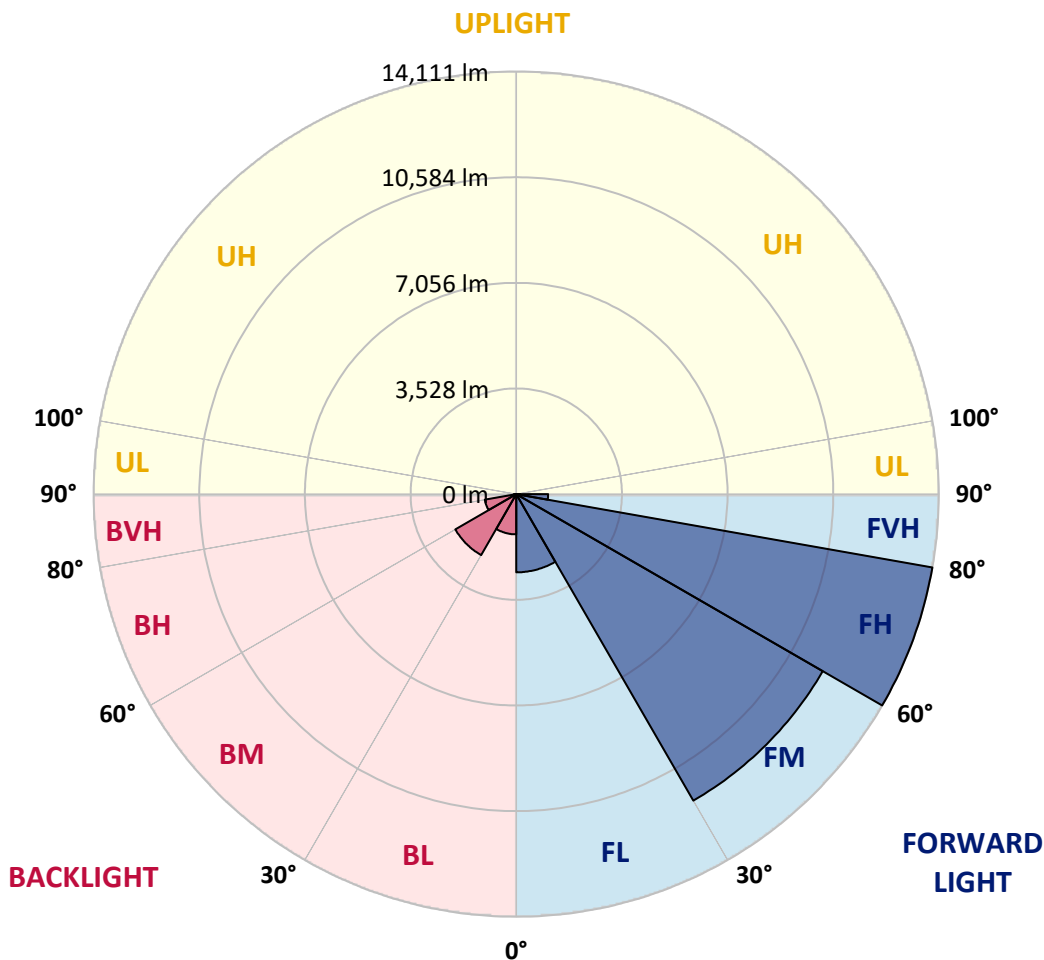
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2610.3	7.6			
FM (30°-60°)	11817.5	34.3			
FH (60°-80°)	14111.5	41.0			G5
FVH (80°-90°)	1065.3	3.1			G5
BL (0°-30°)	1342.9	3.9	B3/2500		
BM (30°-60°)	2350.1	6.8	B2/2500		
BH (60°-80°)	1065.0	3.1	B3/2500		G3/2500
BVH (80°-90°)	84.3	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6131.7	6131.7	6131.7	6131.7	6131.7	6131.7	6131.7	6131.7	6131.7	6131.7	6131.7
2.5°	6278.2	6212.7	6224.2	6201.1	6224.2	6216.5	6205.0	6147.2	6205.0	6147.2	6131.7
5°	6193.4	6193.4	6232.0	6174.1	6181.9	6143.3	6181.9	6139.5	6100.9	6004.6	5977.6
7.5°	6166.4	6162.6	6166.4	6085.5	6124.0	6100.9	6062.4	6016.1	5939.0	5877.4	5788.7
10°	5981.4	6020.0	5977.6	6000.7	6031.5	5962.2	5958.3	5946.8	5912.1	5831.1	5777.2
12.5°	5881.2	5946.8	5969.9	5950.6	5977.6	5985.3	5962.2	5946.8	5904.4	5850.4	5696.2
15°	5923.6	5846.6	5912.1	6039.3	6012.3	6031.5	6035.4	6020.0	6000.7	5900.5	5800.3
17.5°	5935.2	5888.9	6027.7	6054.7	6089.4	6158.7	6112.5	6108.6	6035.4	5966.0	5819.6
20°	5962.2	5942.9	6054.7	6197.3	6201.1	6212.7	6235.8	6178.0	6139.5	6020.0	5796.4
22.5°	6062.4	6127.9	6232.0	6293.6	6328.3	6336.0	6336.0	6220.4	6178.0	6081.6	5904.4
25°	6363.0	6293.6	6440.1	6513.3	6463.2	6451.6	6424.7	6320.6	6274.3	6189.6	5954.5
27.5°	6582.7	6578.8	6663.6	6763.8	6628.9	6655.9	6559.5	6528.7	6424.7	6378.4	6043.1
30°	6883.3	6968.1	6964.2	6995.0	6817.8	6848.6	6725.3	6667.5	6609.6	6636.6	6305.2
32.5°	7268.7	7237.9	7288.0	7264.8	7087.5	7114.5	6968.1	6879.4	6898.7	6979.6	6663.6
35°	7515.3	7484.5	7503.8	7503.8	7449.8	7419.0	7357.3	7241.7	7334.2	7484.5	7064.4
37.5°	7781.3	7819.8	7931.6	7908.5	7839.1	7839.1	7831.4	7750.4	7869.9	8239.9	7704.2
40°	8016.4	8120.4	8189.8	8236.0	8317.0	8317.0	8382.5	8336.2	8552.1	9145.6	8486.6
42.5°	8263.0	8266.9	8644.6	8679.3	8860.4	8937.5	8987.6	9026.1	9430.8	10093.7	9322.9
45°	8579.1	8598.3	8929.8	9195.7	9477.0	9504.0	9692.9	9820.0	10317.2	11130.4	10232.4
47.5°	8995.3	8972.2	9326.7	9750.7	10101.4	10286.4	10513.8	10652.5	11265.3	12255.8	11226.8
50°	9542.6	9473.2	9677.4	10344.2	10756.6	10960.8	11365.5	11596.8	12313.6	13331.1	11908.9
52.5°	10209.3	10093.7	10255.6	10984.0	11446.4	11858.8	12244.2	12502.4	13250.1	14163.5	12413.8
55°	10914.6	10675.6	10721.9	11662.3	12329.0	12718.3	13246.3	13516.1	14279.2	14911.2	12918.7
57.5°	11612.2	11461.9	11369.4	12313.6	13381.2	13755.0	14240.6	14591.3	15238.8	15574.1	13346.5
60°	12198.0	12159.4	12009.1	13323.4	14495.0	14814.9	15323.6	15539.4	16028.9	16186.9	13354.2
62.5°	12679.7	12548.7	12787.6	14136.6	15628.1	15990.3	16549.2	16568.4	16915.3	16568.4	12961.1
65°	13057.4	13065.1	13446.7	15119.3	16938.4	17474.1	17925.1	17875.0	17651.4	16341.1	12032.3
67.5°	13400.4	13546.9	14105.7	16198.5	18622.6	19127.5	19628.5	18965.6	17851.8	15277.3	10217.0
70°	13670.2	13816.7	14996.0	17512.7	20607.5	21347.4	21459.2	19397.3	16930.7	12941.8	7708.0
72.5°	13639.4	13905.3	15500.9	18561.0	22368.7	23008.5	22106.7	18183.3	14105.7	9022.3	4497.6
73°	13704.9	13835.9	15458.5	18853.9	22904.5	23224.3	21806.1	17801.7	13304.1	8093.4	3803.9
75°	12440.8	12884.0	14691.5	18376.0	22330.2	22272.4	20079.5	14834.1	9457.8	4251.0	1842.2
77.5°	9203.4	9484.7	11577.5	15111.6	18329.7	17959.7	15146.3	9480.9	4489.9	1576.3	994.3
80°	4497.6	4717.3	6135.6	8725.5	11986.0	12016.8	9400.0	4933.1	1923.2	890.3	678.3
82.5°	2246.9	2377.9	2948.3	3834.8	5896.7	6178.0	4767.4	2805.7	1190.9	504.9	385.4
85°	1468.4	1560.9	1815.2	1876.9	2501.3	2640.0	2219.9	2189.1	774.7	273.6	312.2
87.5°	975.1	990.5	1113.8	948.1	1002.0	963.5	1071.4	1379.7	227.4	115.6	84.8
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°	6131.7	6131.7	6131.7	6131.7	6131.7	6131.7	6131.7	6131.7	6131.7	6131.7	6131.7
2.5°	6112.5	6058.5	6000.7	5919.8	5862.0	5773.3	5692.4	5657.7	5650.0	5653.9	5615.3
5°	5954.5	5877.4	5761.8	5596.0	5499.7	5353.2	5229.9	5164.4	5095.0	5106.6	5075.7
7.5°	5734.8	5650.0	5472.7	5280.0	5041.1	4832.9	4717.3	4555.5	4463.0	4393.6	4432.1
10°	5665.4	5519.0	5253.0	4987.1	4617.1	4343.5	4077.6	3892.6	3765.4	3642.1	3696.0
12.5°	5630.7	5484.3	5114.3	4721.2	4243.3	3827.0	3453.2	3225.8	3044.7	2936.8	2979.2
15°	5599.9	5418.8	4983.3	4428.3	3892.6	3345.3	2925.2	2624.6	2451.2	2347.1	2358.7
17.5°	5642.3	5384.1	4790.5	4143.1	3507.2	2921.3	2455.0	2142.8	1965.6	1900.0	1884.6
20°	5599.9	5345.5	4601.7	3857.9	3121.8	2516.7	2069.6	1811.4	1688.1	1634.1	1622.5
22.5°	5615.3	5253.0	4405.1	3541.8	2763.3	2177.5	1811.4	1614.8	1518.5	1491.5	1499.2
25°	5688.5	5199.1	4208.6	3195.0	2408.8	1927.0	1645.7	1495.4	1426.0	1399.0	1406.7
27.5°	5742.5	5245.3	4031.3	2867.4	2108.2	1703.5	1506.9	1406.7	1360.5	1341.2	1337.3
30°	5877.4	5272.3	3857.9	2574.5	1861.5	1557.0	1410.6	1329.6	1298.8	1287.2	1283.4
32.5°	6077.8	5322.4	3657.5	2304.7	1680.4	1418.3	1333.5	1264.1	1256.4	1244.8	1248.7
35°	6405.4	5495.8	3433.9	2073.5	1506.9	1325.8	1252.6	1206.3	1206.3	1206.3	1217.9
37.5°	6875.6	5738.6	3233.5	1853.8	1395.2	1244.8	1183.2	1167.8	1160.1	1171.6	1179.3
40°	7480.7	6031.5	3071.7	1680.4	1298.8	1190.9	1136.9	1129.2	1125.4	1121.5	1129.2
42.5°	8143.5	6405.4	2932.9	1545.5	1229.4	1133.1	1094.5	1086.8	1071.4	1079.1	1090.7
45°	8802.6	6867.9	2809.6	1437.6	1183.2	1102.3	1048.3	1044.4	1036.7	1032.9	1052.1
47.5°	9534.9	7322.6	2771.0	1372.0	1148.5	1056.0	1017.5	1013.6	990.5	986.6	1002.0
50°	10105.2	7657.9	2813.4	1341.2	1098.4	1021.3	994.3	975.1	955.8	936.5	936.5
52.5°	10498.4	7889.2	2844.3	1318.1	1071.4	975.1	940.4	932.7	913.4	894.1	886.4
55°	10852.9	8027.9	2852.0	1321.9	1044.4	921.1	898.0	894.1	882.6	851.7	844.0
57.5°	10972.4	7970.1	2697.8	1287.2	1029.0	886.4	855.6	863.3	847.9	820.9	817.1
60°	10960.8	7569.3	2347.1	1241.0	994.3	847.9	809.3	832.5	832.5	801.6	797.8
62.5°	10294.1	6644.3	1919.3	1152.4	955.8	809.3	767.0	801.6	813.2	793.9	790.1
65°	8910.5	5411.0	1603.3	1063.7	898.0	767.0	724.6	763.1	782.4	774.7	770.8
67.5°	7372.7	4139.2	1333.5	948.1	824.8	709.1	674.5	701.4	713.0	716.8	720.7
70°	5210.6	2755.6	1113.8	820.9	724.6	647.5	608.9	612.8	608.9	620.5	620.5
72.5°	2832.7	1587.9	905.7	697.6	624.4	562.7	535.7	516.4	516.4	512.6	512.6
73°	2424.2	1426.0	863.3	678.3	597.4	547.3	516.4	501.0	501.0	497.2	493.3
75°	1360.5	1044.4	740.0	582.0	516.4	477.9	454.8	431.7	427.8	427.8	427.8
77.5°	894.1	813.2	589.7	466.3	416.2	381.5	373.8	350.7	350.7	350.7	346.9
80°	670.6	639.8	454.8	354.6	319.9	292.9	285.2	269.8	265.9	250.5	254.4
82.5°	447.1	504.9	331.4	250.5	215.8	200.4	200.4	196.6	185.0	165.7	165.7
85°	354.6	412.4	238.9	154.2	127.2	107.9	111.8	107.9	104.1	84.8	80.9
87.5°	65.5	165.7	69.4	42.4	30.8	19.3	19.3	11.6	7.7	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)