

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: P480989

Luminaire Tested: **IFLD-L-SA7A-760-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480989
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-760-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

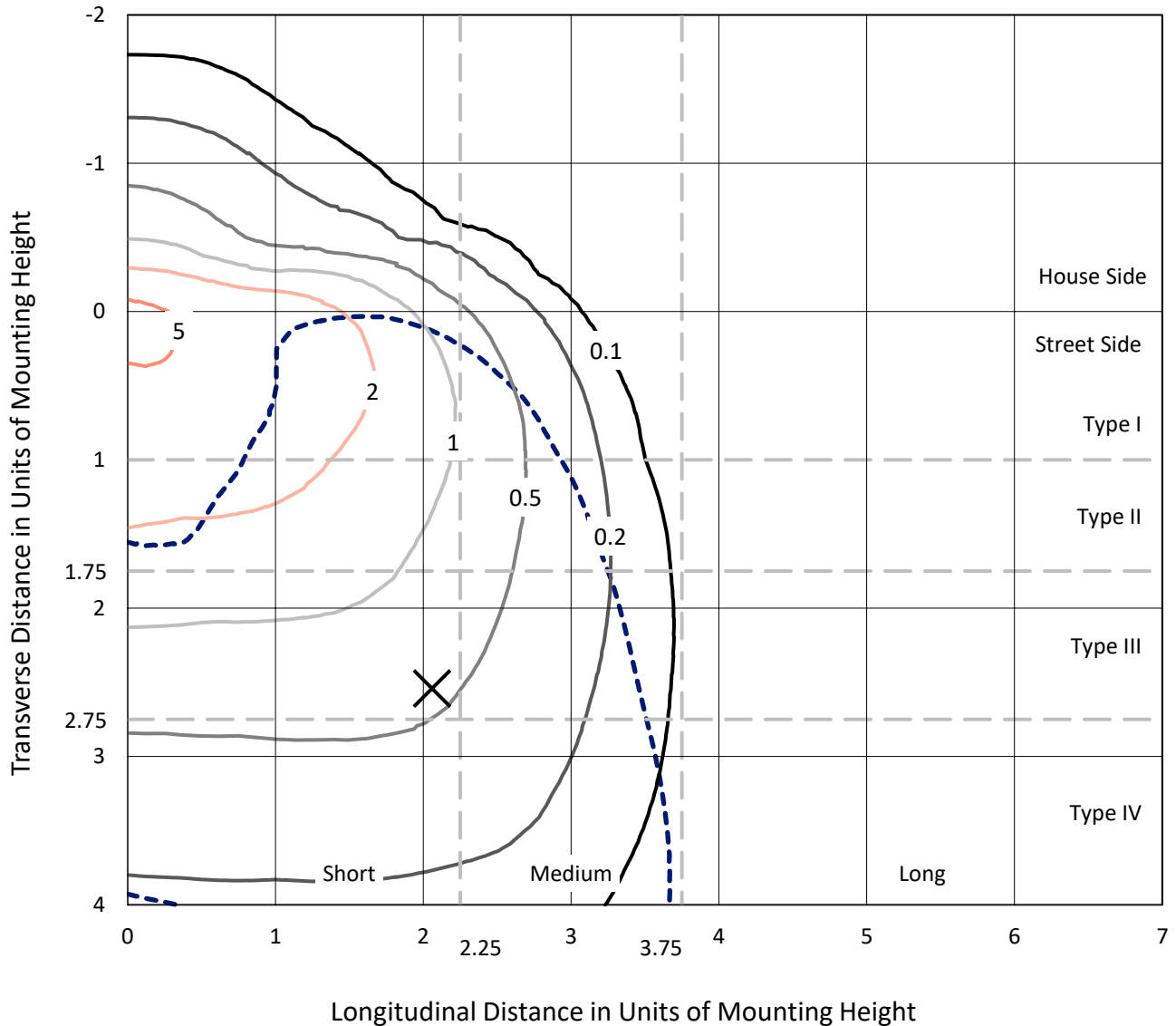
Lumens per Lamp: N/A
Luminaire Lumens: 30969.7 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 217.6
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

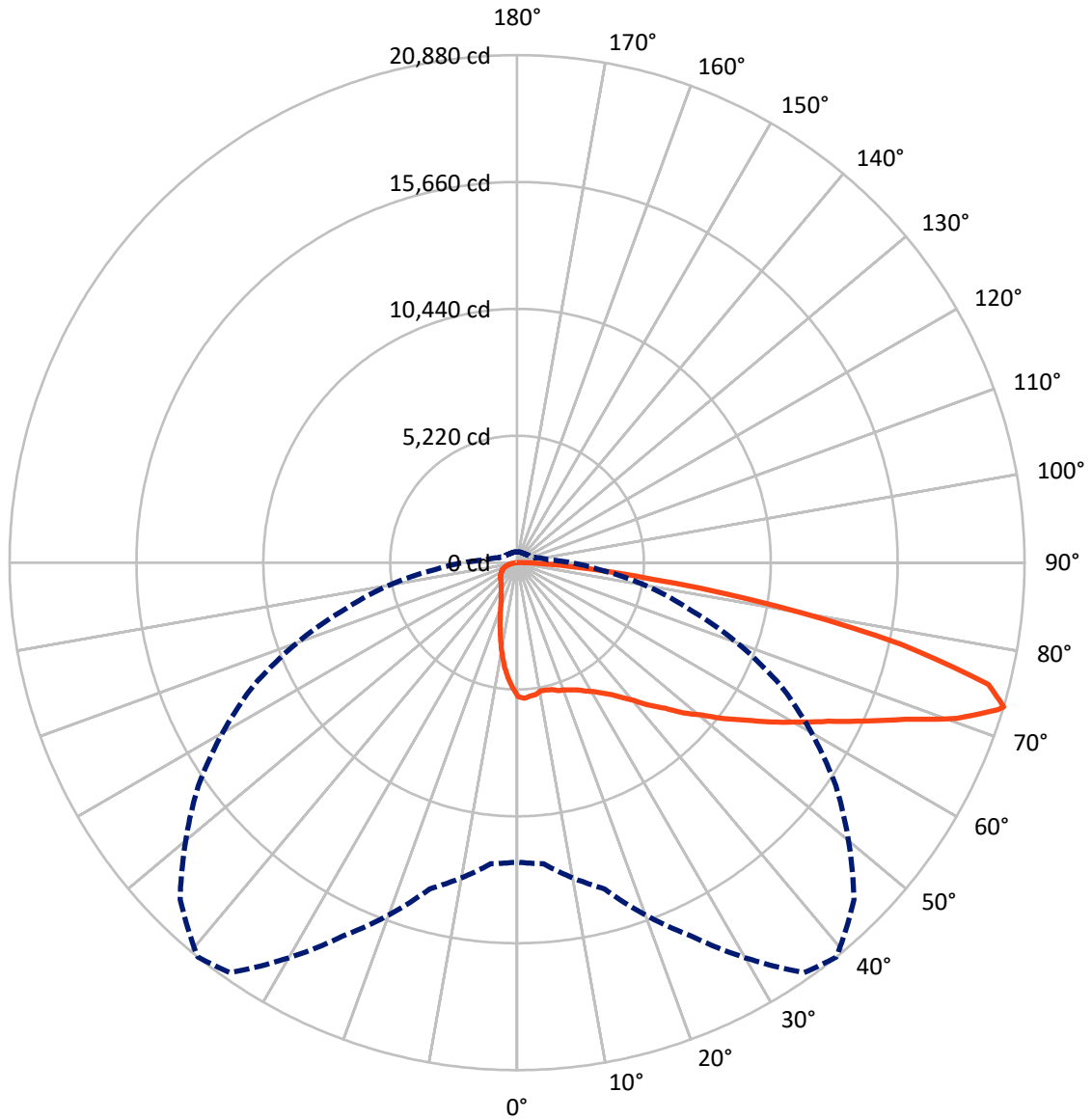
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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	4353.5	0.0	4353.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	26616.2	0.0	26616.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	30969.7	0.0	30969.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.6	1.5
10°-20°	1216.5	3.9
20°-30°	1859.0	6.0
30°-40°	2710.5	8.8
40°-50°	4095.9	13.2
50°-60°	5931.1	19.2
60°-70°	7535.7	24.3
70°-80°	6108.8	19.7
80°-90°	1033.6	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°	30969.7	100.0
0°-180°	30969.7	100.0

Coefficient of Utilization



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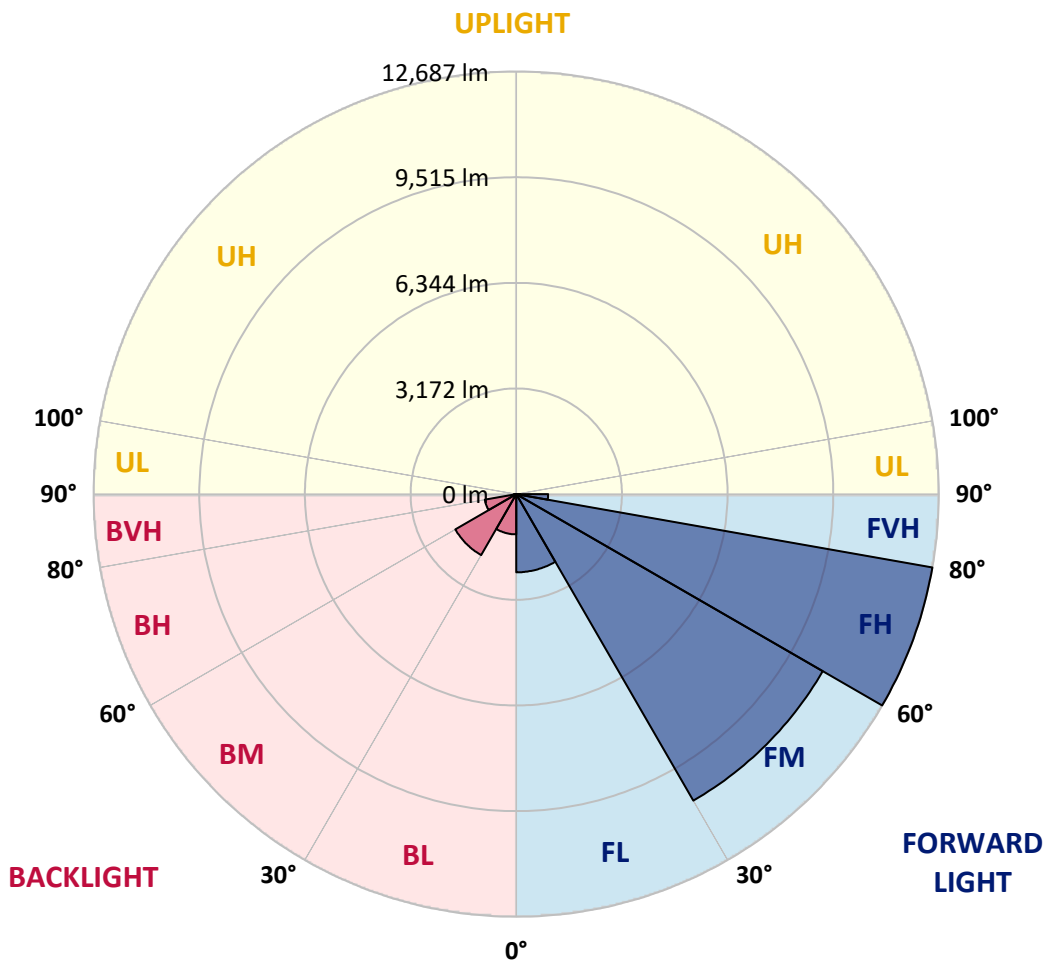
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2346.8	7.6			
FM	(30°-60°)	10624.6	34.3			
FH	(60°-80°)	12687.0	41.0			G5
FVH	(80°-90°)	957.8	3.1			G5
BL	(0°-30°)	1207.3	3.9	B3/2500		
BM	(30°-60°)	2112.8	6.8	B2/2500		
BH	(60°-80°)	957.5	3.1	B2/1000		G2/1000
BVH	(80°-90°)	75.8	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8
2.5°	5644.5	5585.6	5596.0	5575.2	5596.0	5589.0	5578.6	5526.7	5578.6	5526.7	5512.8
5°	5568.2	5568.2	5602.9	5550.9	5557.8	5523.2	5557.8	5519.7	5485.1	5398.4	5374.2
7.5°	5544.0	5540.5	5544.0	5471.2	5505.9	5485.1	5450.4	5408.8	5339.5	5284.1	5204.4
10°	5377.7	5412.3	5374.2	5395.0	5422.7	5360.3	5356.9	5346.5	5315.3	5242.5	5194.0
12.5°	5287.6	5346.5	5367.3	5349.9	5374.2	5381.1	5360.3	5346.5	5308.4	5259.9	5121.3
15°	5325.7	5256.4	5315.3	5429.6	5405.4	5422.7	5426.2	5412.3	5395.0	5304.9	5214.8
17.5°	5336.1	5294.5	5419.2	5443.5	5474.7	5537.0	5495.5	5492.0	5426.2	5363.8	5232.1
20°	5360.3	5343.0	5443.5	5571.7	5575.2	5585.6	5606.3	5554.4	5519.7	5412.3	5211.3
22.5°	5450.4	5509.3	5602.9	5658.3	5689.5	5696.4	5696.4	5592.5	5554.4	5467.7	5308.4
25°	5720.7	5658.3	5790.0	5855.8	5810.8	5800.4	5776.1	5682.6	5641.0	5564.8	5353.4
27.5°	5918.2	5914.7	5991.0	6081.1	5959.8	5984.0	5897.4	5869.7	5776.1	5734.6	5433.1
30°	6188.5	6264.7	6261.2	6289.0	6129.6	6157.3	6046.4	5994.4	5942.5	5966.7	5668.7
32.5°	6535.0	6507.2	6552.3	6531.5	6372.1	6396.4	6264.7	6185.0	6202.3	6275.1	5991.0
35°	6756.7	6729.0	6746.3	6746.3	6697.8	6670.1	6614.7	6510.7	6593.9	6729.0	6351.3
37.5°	6995.8	7030.5	7130.9	7110.2	7047.8	7047.8	7040.9	6968.1	7075.5	7408.1	6926.5
40°	7207.2	7300.7	7363.1	7404.7	7477.4	7477.4	7536.3	7494.8	7688.8	8222.4	7629.9
42.5°	7428.9	7432.4	7772.0	7803.2	7966.0	8035.3	8080.3	8115.0	8478.8	9074.8	8381.8
45°	7713.1	7730.4	8028.4	8267.5	8520.4	8544.7	8714.4	8828.8	9275.8	10006.9	9199.5
47.5°	8087.3	8066.5	8385.3	8766.4	9081.7	9248.1	9452.5	9577.2	10128.2	11018.7	10093.5
50°	8579.3	8516.9	8700.6	9300.0	9670.8	9854.4	10218.2	10426.1	11070.6	11985.4	10706.8
52.5°	9178.8	9074.8	9220.3	9875.2	10291.0	10661.8	11008.3	11240.4	11912.6	12733.8	11160.7
55°	9812.8	9598.0	9639.6	10485.1	11084.5	11434.5	11909.2	12151.7	12837.8	13406.0	11614.6
57.5°	10440.0	10304.9	10221.7	11070.6	12030.4	12366.5	12803.1	13118.4	13700.6	14002.0	11999.3
60°	10966.7	10932.0	10796.9	11978.5	13031.8	13319.4	13776.8	13970.8	14410.9	14552.9	12006.2
62.5°	11399.8	11282.0	11496.8	12709.6	14050.5	14376.2	14878.7	14896.0	15207.8	14896.0	11652.8
65°	11739.4	11746.3	12089.3	13593.1	15228.6	15710.3	16115.7	16070.6	15869.6	14691.5	10817.7
67.5°	12047.8	12179.4	12681.9	14563.3	16742.8	17196.7	17647.2	17051.2	16049.8	13735.2	9185.7
70°	12290.3	12422.0	13482.3	15744.9	18527.3	19192.6	19293.0	17439.3	15221.7	11635.4	6930.0
72.5°	12262.6	12501.7	13936.2	16687.4	20110.8	20686.0	19875.2	16347.8	12681.9	8111.5	4043.6
73°	12321.5	12439.3	13898.1	16950.7	20592.4	20880.0	19604.9	16004.8	11961.1	7276.5	3419.9
75°	11185.0	11583.5	13208.5	16521.1	20076.1	20024.2	18052.6	13336.7	8503.1	3821.9	1656.3
77.5°	8274.4	8527.3	10408.8	13586.2	16479.5	16146.8	13617.4	8523.9	4036.7	1417.2	894.0
80°	4043.6	4241.1	5516.3	7844.7	10776.1	10803.8	8451.1	4435.2	1729.0	800.4	609.8
82.5°	2020.1	2137.9	2650.7	3447.7	5301.4	5554.4	4286.2	2522.5	1070.7	453.9	346.5
85°	1320.2	1403.3	1632.0	1687.4	2248.8	2373.5	1995.8	1968.1	696.5	246.0	280.7
87.5°	876.6	890.5	1001.4	852.4	900.9	866.2	963.3	1240.5	204.4	103.9	76.2
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°	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8	5512.8
2.5°	5495.5	5447.0	5395.0	5322.2	5270.2	5190.6	5117.8	5086.6	5079.7	5083.1	5048.5
5°	5353.4	5284.1	5180.2	5031.2	4944.5	4812.9	4702.0	4643.1	4580.7	4591.1	4563.4
7.5°	5155.9	5079.7	4920.3	4747.0	4532.2	4345.1	4241.1	4095.6	4012.5	3950.1	3984.7
10°	5093.5	4961.9	4722.8	4483.7	4151.1	3905.0	3666.0	3499.6	3385.3	3274.4	3322.9
12.5°	5062.3	4930.7	4598.0	4244.6	3815.0	3440.7	3104.6	2900.2	2737.3	2640.3	2678.4
15°	5034.6	4871.8	4480.2	3981.3	3499.6	3007.6	2629.9	2359.7	2203.7	2110.2	2120.6
17.5°	5072.7	4840.6	4307.0	3724.9	3153.1	2626.5	2207.2	1926.5	1767.1	1708.2	1694.4
20°	5034.6	4805.9	4137.2	3468.5	2806.6	2262.6	1860.7	1628.5	1517.7	1469.2	1458.8
22.5°	5048.5	4722.8	3960.5	3184.3	2484.4	1957.7	1628.5	1451.8	1365.2	1340.9	1347.9
25°	5114.3	4674.3	3783.8	2872.5	2165.6	1732.5	1479.5	1344.4	1282.0	1257.8	1264.7
27.5°	5162.8	4715.8	3624.4	2578.0	1895.3	1531.5	1354.8	1264.7	1223.1	1205.8	1202.4
30°	5284.1	4740.1	3468.5	2314.6	1673.6	1399.9	1268.2	1195.4	1167.7	1157.3	1153.8
32.5°	5464.3	4785.1	3288.3	2072.1	1510.7	1275.1	1198.9	1136.5	1129.6	1119.2	1122.7
35°	5758.8	4941.1	3087.3	1864.2	1354.8	1192.0	1126.1	1084.5	1084.5	1084.5	1094.9
37.5°	6181.5	5159.4	2907.1	1666.7	1254.3	1119.2	1063.8	1049.9	1043.0	1053.4	1060.3
40°	6725.5	5422.7	2761.6	1510.7	1167.7	1070.7	1022.2	1015.2	1011.8	1008.3	1015.2
42.5°	7321.5	5758.8	2636.9	1389.5	1105.3	1018.7	984.1	977.1	963.3	970.2	980.6
45°	7914.0	6174.6	2526.0	1292.4	1063.8	991.0	942.5	939.0	932.1	928.6	945.9
47.5°	8572.4	6583.5	2491.3	1233.5	1032.6	949.4	914.8	911.3	890.5	887.0	900.9
50°	9085.2	6884.9	2529.4	1205.8	987.5	918.2	894.0	876.6	859.3	842.0	842.0
52.5°	9438.6	7092.8	2557.2	1185.0	963.3	876.6	845.5	838.5	821.2	803.9	796.9
55°	9757.4	7217.6	2564.1	1188.5	939.0	828.1	807.3	803.9	793.5	765.8	758.8
57.5°	9864.8	7165.6	2425.5	1157.3	925.2	796.9	769.2	776.2	762.3	738.0	734.6
60°	9854.4	6805.2	2110.2	1115.7	894.0	762.3	727.6	748.4	748.4	720.7	717.3
62.5°	9255.0	5973.6	1725.6	1036.0	859.3	727.6	689.5	720.7	731.1	713.8	710.3
65°	8011.1	4864.8	1441.4	956.3	807.3	689.5	651.4	686.1	703.4	696.5	693.0
67.5°	6628.5	3721.4	1198.9	852.4	741.5	637.6	606.4	630.6	641.0	644.5	648.0
70°	4684.7	2477.5	1001.4	738.0	651.4	582.1	547.5	550.9	547.5	557.9	557.9
72.5°	2546.8	1427.6	814.3	627.2	561.3	505.9	481.6	464.3	464.3	460.8	460.8
73°	2179.5	1282.0	776.2	609.8	537.1	492.0	464.3	450.4	450.4	447.0	443.5
75°	1223.1	939.0	665.3	523.2	464.3	429.7	408.9	388.1	384.6	384.6	384.6
77.5°	803.9	731.1	530.1	419.3	374.2	343.0	336.1	315.3	315.3	315.3	311.8
80°	602.9	575.2	408.9	318.8	287.6	263.3	256.4	242.5	239.1	225.2	228.7
82.5°	401.9	453.9	298.0	225.2	194.0	180.2	180.2	176.7	166.3	149.0	149.0
85°	318.8	370.8	214.8	138.6	114.3	97.0	100.5	97.0	93.6	76.2	72.8
87.5°	58.9	149.0	62.4	38.1	27.7	17.3	17.3	10.4	6.9	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)