

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: P480873

Luminaire Tested: **IFLD-L-SA7B-735-U-SL4**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P480873
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-735-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

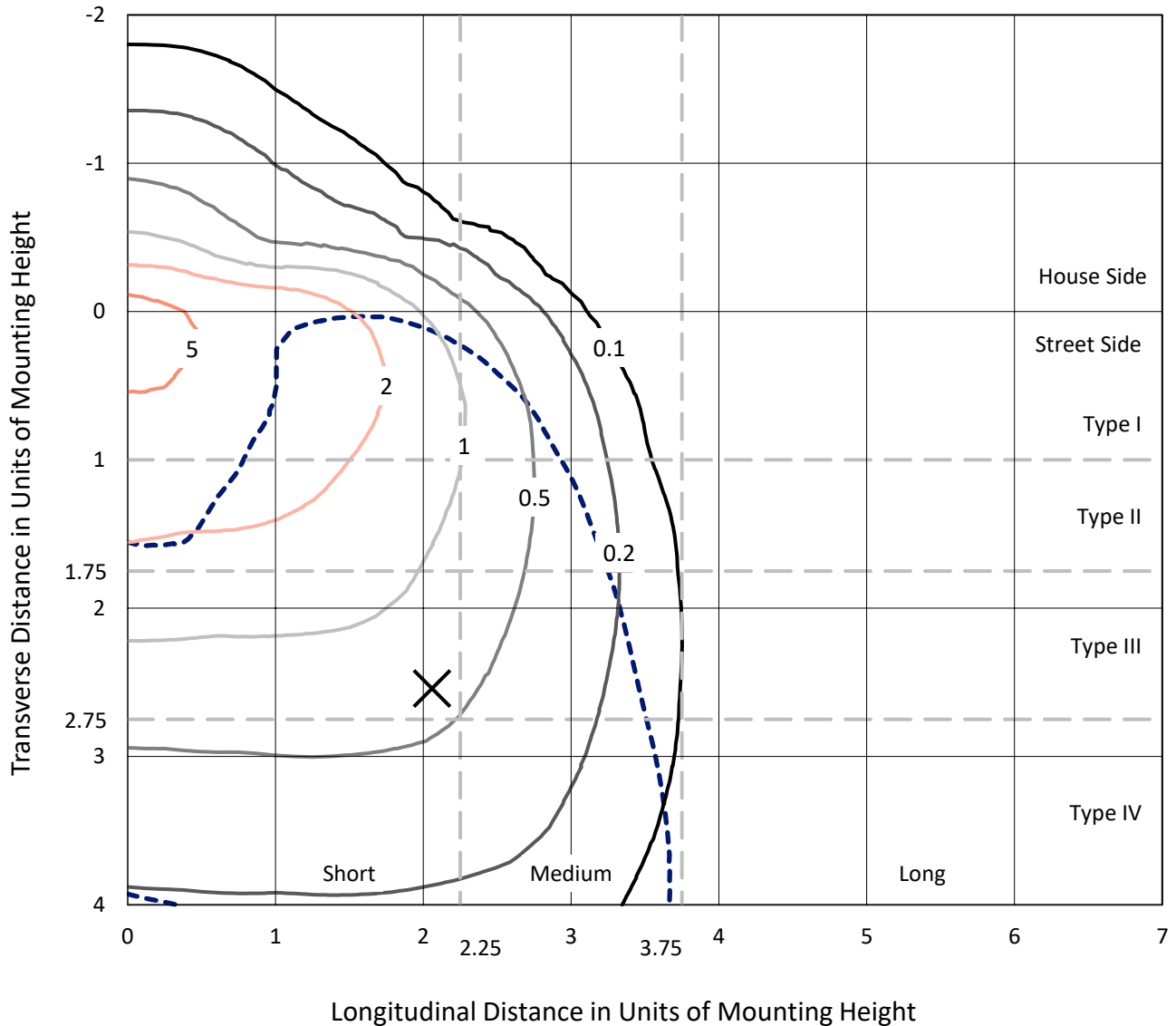
Lumens per Lamp: N/A
Luminaire Lumens: 33974.9 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 281
Input Voltage (V): 120
Input Current (A_{in}): 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

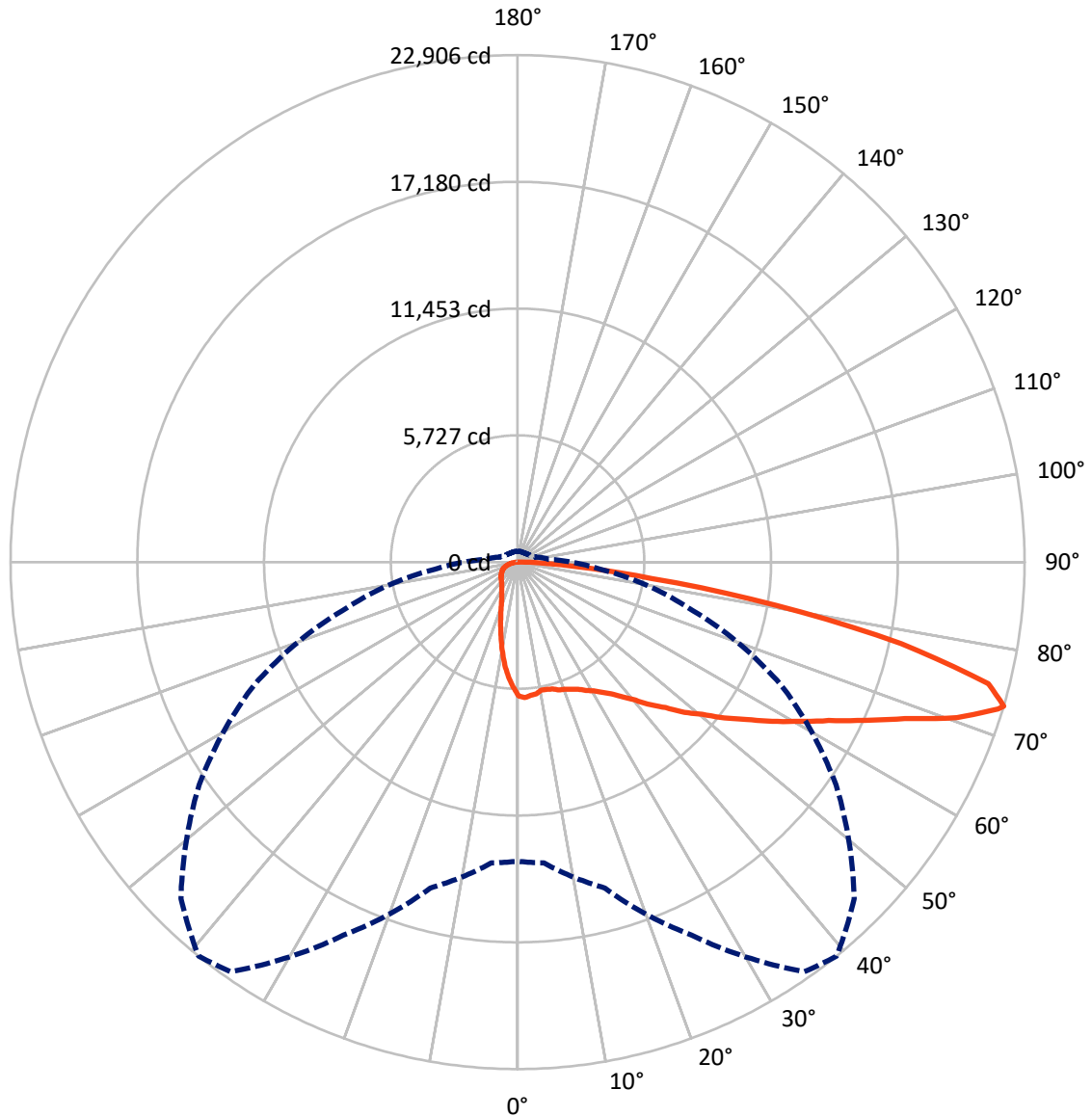
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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	4775.9	0.0	4775.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	29199.0	0.0	29199.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	33974.9	0.0	33974.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.0	1.5
10°-20°	1334.6	3.9
20°-30°	2039.4	6.0
30°-40°	2973.5	8.8
40°-50°	4493.3	13.2
50°-60°	6506.6	19.2
60°-70°	8266.9	24.3
70°-80°	6701.6	19.7
80°-90°	1133.9	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°	33974.9	100.0
0°-180°	33974.9	100.0

Coefficient of Utilization



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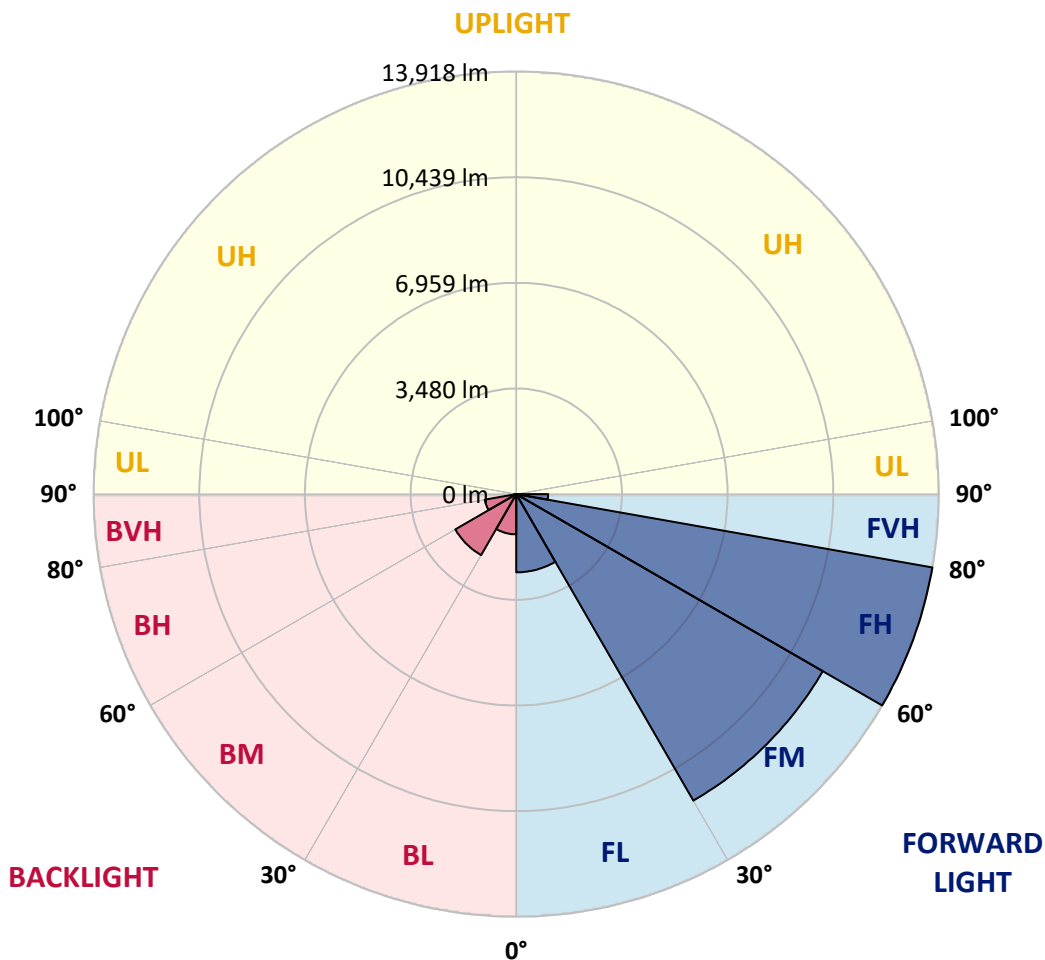
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2574.6	7.6			
FM (30°-60°)	11655.6	34.3			
FH (60°-80°)	13918.2	41.0			G5
FVH (80°-90°)	1050.7	3.1			G5
BL (0°-30°)	1324.5	3.9	B3/2500		
BM (30°-60°)	2317.9	6.8	B2/2500		
BH (60°-80°)	1050.4	3.1	B3/2500		G3/2500
BVH (80°-90°)	83.2	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°	6047.7	6047.7	6047.7	6047.7	6047.7	6047.7	6047.7	6047.7	6047.7	6047.7	6047.7
2.5°	6192.2	6127.6	6139.0	6116.2	6139.0	6131.4	6120.0	6062.9	6120.0	6062.9	6047.7
5°	6108.6	6108.6	6146.6	6089.6	6097.2	6059.1	6097.2	6055.3	6017.3	5922.3	5895.7
7.5°	6082.0	6078.2	6082.0	6002.1	6040.1	6017.3	5979.3	5933.7	5857.7	5796.9	5709.4
10°	5899.5	5937.5	5895.7	5918.5	5948.9	5880.5	5876.7	5865.3	5831.1	5751.2	5698.0
12.5°	5800.7	5865.3	5888.1	5869.1	5895.7	5903.3	5880.5	5865.3	5823.5	5770.3	5618.2
15°	5842.5	5766.5	5831.1	5956.5	5929.9	5948.9	5952.7	5937.5	5918.5	5819.7	5720.8
17.5°	5853.9	5808.3	5945.1	5971.7	6005.9	6074.4	6028.7	6024.9	5952.7	5884.3	5739.8
20°	5880.5	5861.5	5971.7	6112.4	6116.2	6127.6	6150.4	6093.4	6055.3	5937.5	5717.0
22.5°	5979.3	6043.9	6146.6	6207.4	6241.6	6249.2	6249.2	6135.2	6093.4	5998.3	5823.5
25°	6275.8	6207.4	6351.8	6424.1	6374.6	6363.2	6336.6	6234.0	6188.4	6104.8	5872.9
27.5°	6492.5	6488.7	6572.3	6671.1	6538.1	6564.7	6469.7	6439.3	6336.6	6291.0	5960.3
30°	6789.0	6872.6	6868.8	6899.2	6724.4	6754.8	6633.1	6576.1	6519.1	6545.7	6218.8
32.5°	7169.1	7138.7	7188.1	7165.3	6990.4	7017.1	6872.6	6785.2	6804.2	6884.0	6572.3
35°	7412.4	7382.0	7401.0	7401.0	7347.8	7317.4	7256.5	7142.5	7233.7	7382.0	6967.6
37.5°	7674.7	7712.7	7822.9	7800.1	7731.7	7731.7	7724.1	7644.3	7762.1	8127.0	7598.6
40°	7906.5	8009.2	8077.6	8123.2	8203.0	8203.0	8267.7	8222.0	8434.9	9020.3	8370.3
42.5°	8149.8	8153.6	8526.1	8560.4	8739.0	8815.0	8864.4	8902.5	9301.6	9955.4	9195.2
45°	8461.5	8480.5	8807.4	9069.7	9347.2	9373.8	9560.1	9685.5	10175.9	10977.9	10092.2
47.5°	8872.1	8849.2	9199.0	9617.1	9963.0	10145.5	10369.7	10506.6	11111.0	12087.9	11073.0
50°	9411.8	9343.4	9544.9	10202.5	10609.2	10810.7	11209.8	11437.9	12144.9	13148.4	11745.8
52.5°	10069.4	9955.4	10115.1	10833.5	11289.6	11696.4	12076.5	12331.2	13068.6	13969.5	12243.7
55°	10765.1	10529.4	10575.0	11502.5	12160.1	12544.0	13064.8	13330.9	14083.5	14706.9	12741.7
57.5°	11453.1	11304.8	11213.6	12144.9	13197.8	13566.6	14045.5	14391.4	15030.0	15360.7	13163.6
60°	12030.9	11992.9	11844.6	13140.8	14296.4	14611.9	15113.7	15326.5	15809.3	15965.1	13171.2
62.5°	12506.0	12376.8	12612.5	13942.9	15414.0	15771.3	16322.4	16341.5	16683.6	16341.5	12783.5
65°	12878.5	12886.1	13262.5	14912.2	16706.4	17234.7	17679.5	17630.1	17409.6	16117.2	11867.4
67.5°	13216.8	13361.3	13912.5	15976.5	18367.5	18865.5	19359.6	18705.8	17607.3	15068.0	10077.0
70°	13482.9	13627.4	14790.6	17272.8	20325.1	21055.0	21165.2	19131.5	16698.8	12764.5	7602.4
72.5°	13452.5	13714.8	15288.5	18306.7	22062.3	22693.3	21803.8	17934.2	13912.5	8898.7	4436.0
73°	13517.1	13646.4	15246.7	18595.6	22590.7	22906.2	21507.3	17557.8	13121.8	7982.6	3751.8
75°	12270.3	12707.5	14490.3	18124.2	22024.3	21967.3	19804.4	14630.9	9328.2	4192.7	1817.0
77.5°	9077.3	9354.8	11418.9	14904.6	18078.6	17713.7	14938.8	9351.0	4428.4	1554.7	980.7
80°	4436.0	4652.7	6051.5	8606.0	11821.8	11852.2	9271.2	4865.6	1896.8	878.1	669.0
82.5°	2216.1	2345.4	2907.9	3782.2	5815.9	6093.4	4702.1	2767.3	1174.6	498.0	380.1
85°	1448.3	1539.5	1790.4	1851.2	2467.0	2603.8	2189.5	2159.1	764.0	269.9	307.9
87.5°	961.7	976.9	1098.6	935.1	988.3	950.3	1056.7	1360.8	224.3	114.0	83.6
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°	6047.7	6047.7	6047.7	6047.7	6047.7	6047.7	6047.7	6047.7	6047.7	6047.7	6047.7
2.5°	6028.7	5975.5	5918.5	5838.7	5781.7	5694.2	5614.4	5580.2	5572.6	5576.4	5538.4
5°	5872.9	5796.9	5682.8	5519.4	5424.3	5279.9	5158.3	5093.6	5025.2	5036.6	5006.2
7.5°	5656.2	5572.6	5397.7	5207.7	4972.0	4766.7	4652.7	4493.0	4401.8	4333.4	4371.4
10°	5587.8	5443.3	5181.1	4918.8	4553.9	4284.0	4021.7	3839.2	3713.8	3592.2	3645.4
12.5°	5553.6	5409.1	5044.2	4656.5	4185.1	3774.6	3405.9	3181.6	3003.0	2896.5	2938.3
15°	5523.2	5344.5	4915.0	4367.6	3839.2	3299.5	2885.1	2588.6	2417.6	2314.9	2326.3
17.5°	5565.0	5310.3	4724.9	4086.3	3459.1	2881.3	2421.4	2113.5	1938.6	1874.0	1858.8
20°	5523.2	5272.3	4538.7	3805.0	3079.0	2482.2	2041.3	1786.6	1664.9	1611.7	1600.3
22.5°	5538.4	5181.1	4344.8	3493.3	2725.5	2147.7	1786.6	1592.7	1497.7	1471.1	1478.7
25°	5610.6	5127.8	4150.9	3151.2	2375.8	1900.6	1623.1	1474.9	1406.5	1379.8	1387.4
27.5°	5663.8	5173.5	3976.1	2828.1	2079.3	1680.1	1486.3	1387.4	1341.8	1322.8	1319.0
30°	5796.9	5200.1	3805.0	2539.2	1836.0	1535.7	1391.2	1311.4	1281.0	1269.6	1265.8
32.5°	5994.5	5249.5	3607.4	2273.1	1657.3	1398.8	1315.2	1246.8	1239.2	1227.8	1231.6
35°	6317.6	5420.5	3386.9	2045.1	1486.3	1307.6	1235.4	1189.8	1189.8	1189.8	1201.2
37.5°	6781.4	5660.0	3189.2	1828.4	1376.0	1227.8	1167.0	1151.8	1144.2	1155.6	1163.2
40°	7378.2	5948.9	3029.6	1657.3	1281.0	1174.6	1121.4	1113.8	1110.0	1106.2	1113.8
42.5°	8032.0	6317.6	2892.7	1524.3	1212.6	1117.6	1079.5	1071.9	1056.7	1064.3	1075.7
45°	8682.0	6773.8	2771.1	1417.9	1167.0	1087.1	1033.9	1030.1	1022.5	1018.7	1037.7
47.5°	9404.2	7222.3	2733.1	1353.2	1132.8	1041.5	1003.5	999.7	976.9	973.1	988.3
50°	9966.8	7553.0	2774.9	1322.8	1083.3	1007.3	980.7	961.7	942.7	923.7	923.7
52.5°	10354.5	7781.1	2805.3	1300.0	1056.7	961.7	927.5	919.9	900.9	881.9	874.3
55°	10704.2	7917.9	2812.9	1303.8	1030.1	908.5	885.7	881.9	870.5	840.1	832.5
57.5°	10822.1	7860.9	2660.9	1269.6	1014.9	874.3	843.9	851.5	836.3	809.7	805.9
60°	10810.7	7465.6	2314.9	1224.0	980.7	836.3	798.3	821.1	821.1	790.7	786.9
62.5°	10153.1	6553.3	1893.0	1136.6	942.7	798.3	756.4	790.7	802.1	783.1	779.3
65°	8788.4	5336.9	1581.3	1049.1	885.7	756.4	714.6	752.6	771.6	764.0	760.2
67.5°	7271.7	4082.5	1315.2	935.1	813.5	699.4	665.2	691.8	703.2	707.0	710.8
70°	5139.3	2717.9	1098.6	809.7	714.6	638.6	600.6	604.4	600.6	612.0	612.0
72.5°	2793.9	1566.1	893.3	688.0	615.8	555.0	528.4	509.4	509.4	505.6	505.6
73°	2391.0	1406.5	851.5	669.0	589.2	539.8	509.4	494.2	494.2	490.4	486.6
75°	1341.8	1030.1	729.8	574.0	509.4	471.4	448.5	425.7	421.9	421.9	421.9
77.5°	881.9	802.1	581.6	459.9	410.5	376.3	368.7	345.9	345.9	345.9	342.1
80°	661.4	631.0	448.5	349.7	315.5	288.9	281.3	266.1	262.3	247.1	250.9
82.5°	440.9	498.0	326.9	247.1	212.9	197.7	197.7	193.9	182.5	163.5	163.5
85°	349.7	406.7	235.7	152.0	125.4	106.4	110.2	106.4	102.6	83.6	79.8
87.5°	64.6	163.5	68.4	41.8	30.4	19.0	19.0	11.4	7.6	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)