

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: P478955

Luminaire Tested: **IFLD-S-SA6E-740-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478955
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-740-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

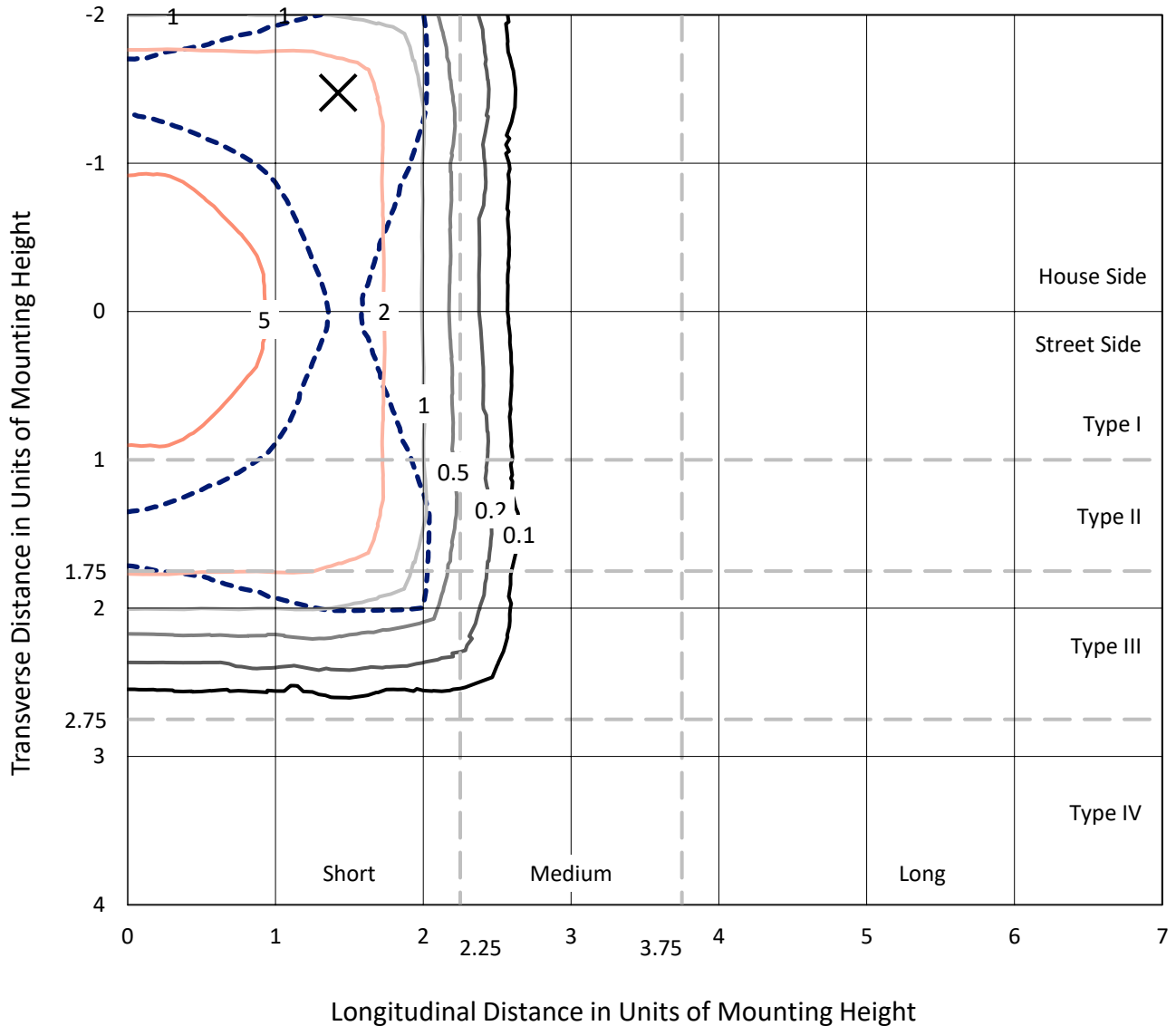
Lumens per Lamp: N/A
Luminaire Lumens: 52774 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 464.2
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

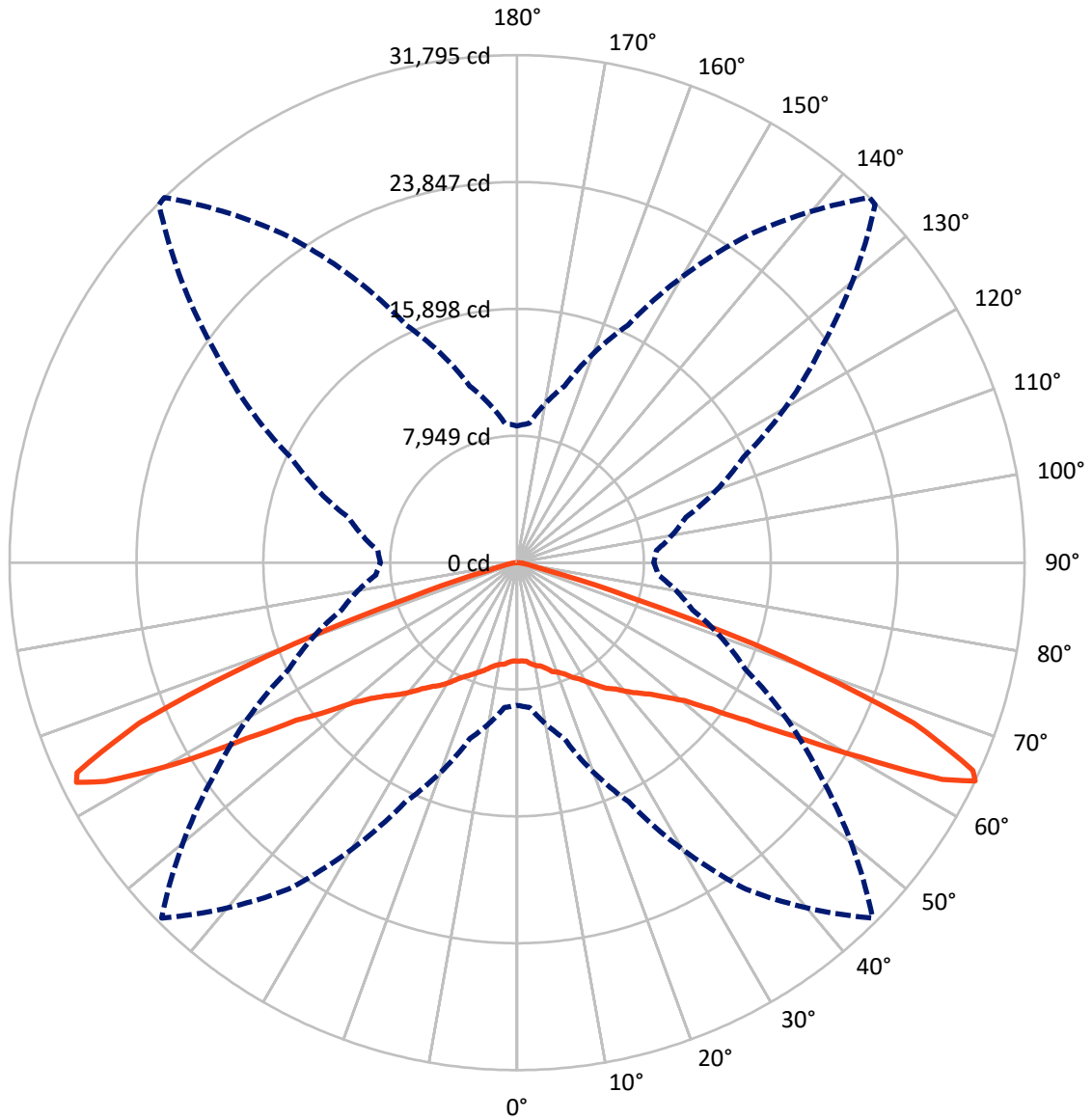
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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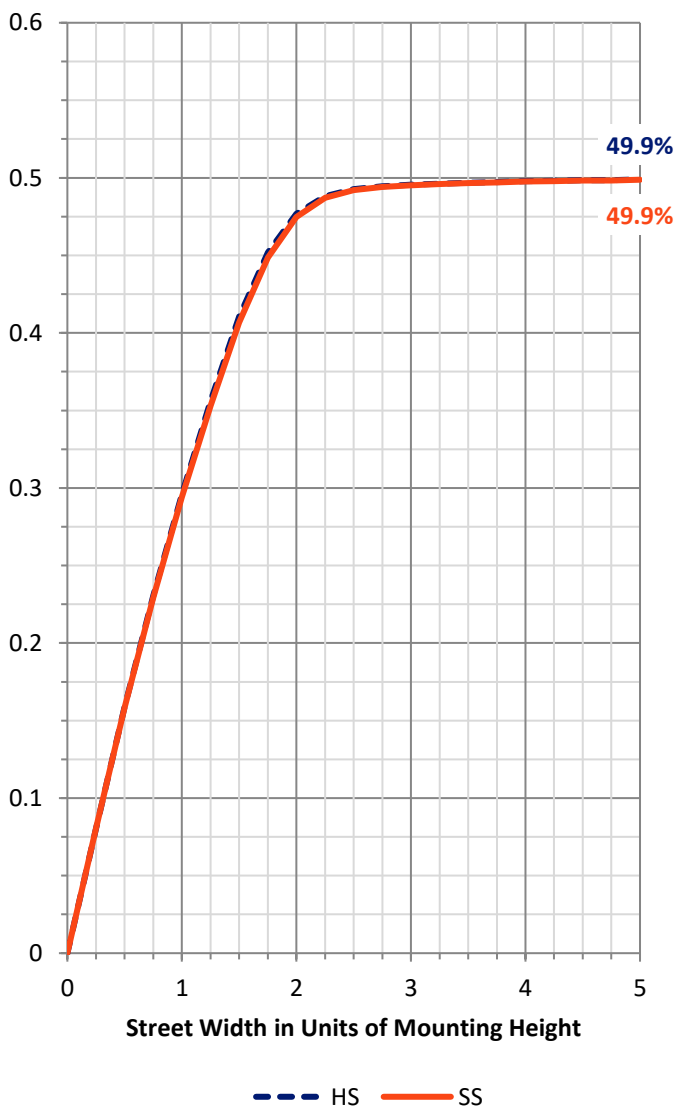
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26412.1	0.0	26412.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26361.8	0.0	26361.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	52774.0	0.0	52774.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.1	1.2
10°-20°	1956.7	3.7
20°-30°	3677.5	7.0
30°-40°	6064.8	11.5
40°-50°	9484.9	18.0
50°-60°	15325.3	29.0
60°-70°	13799.4	26.1
70°-80°	1634.6	3.1
80°-90°	223.7	0.4
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°	52774.0	100.0
0°-180°	52774.0	100.0



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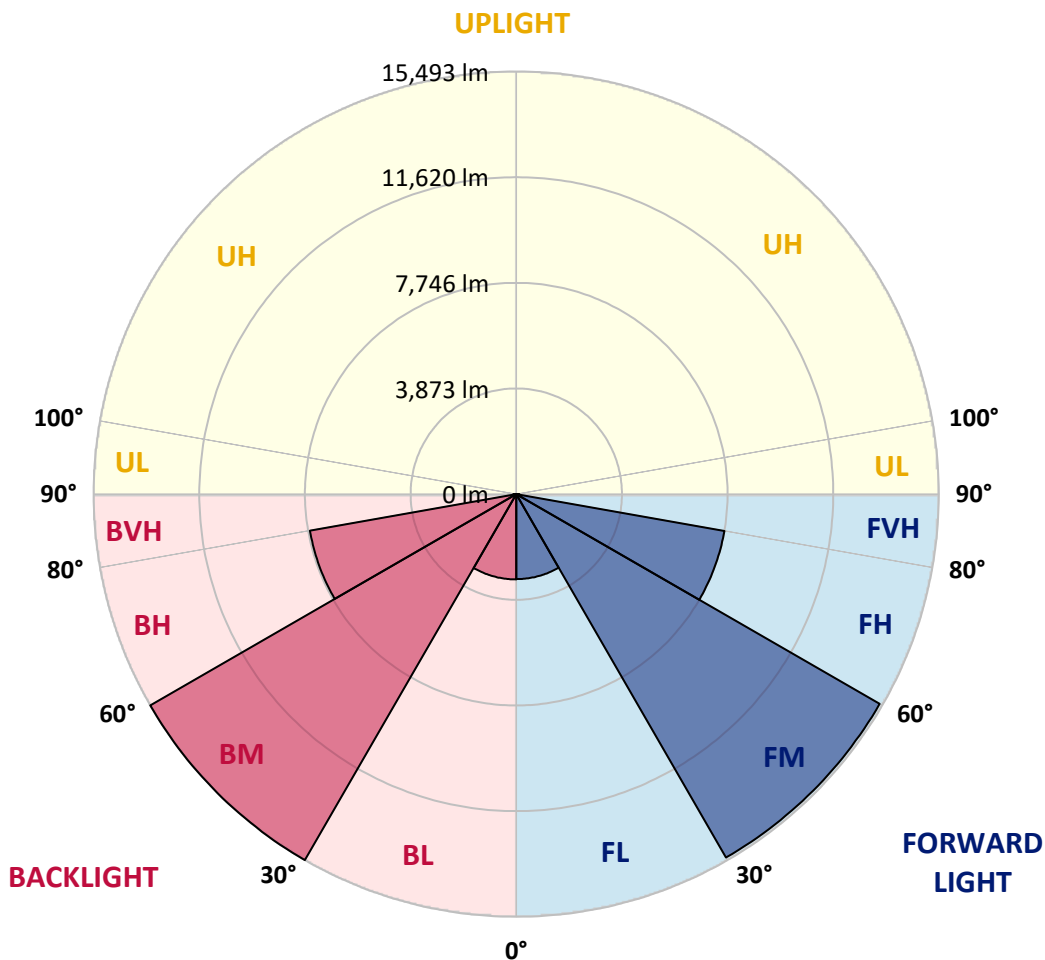
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3114.6	5.9			
FM (30°-60°)	15382.0	29.1			
FH (60°-80°)	7750.5	14.7			G4/12000
FVH (80°-90°)	114.8	0.2			G2/225
BL (0°-30°)	3126.7	5.9	B4/5000		
BM (30°-60°)	15493.0	29.4	B5		
BH (60°-80°)	7683.6	14.6	B5		G4/12000
BVH (80°-90°)	109.0	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6178.7	6178.7	6178.7	6178.7	6178.7	6178.7	6178.7	6178.7	6178.7	6178.7	6178.7
2.5°	6106.1	6118.2	6227.2	6184.8	6221.1	6154.5	6203.0	6305.8	6184.8	6275.6	6305.8
5°	6172.7	6190.9	6190.9	6233.2	6257.4	6245.3	6275.6	6233.2	6348.2	6299.8	6372.4
7.5°	6414.8	6384.5	6336.1	6372.4	6378.5	6408.7	6439.0	6493.4	6475.3	6432.9	6505.5
10°	6457.1	6432.9	6505.5	6511.6	6481.3	6457.1	6487.4	6487.4	6541.8	6554.0	6554.0
12.5°	6529.7	6554.0	6547.9	6596.3	6602.4	6584.2	6632.6	6723.4	6699.2	6717.3	6675.0
15°	6808.1	6777.9	6771.8	6820.2	6898.9	6783.9	6868.6	6862.6	6838.4	6874.7	6777.9
17.5°	7050.2	6953.4	6995.7	7074.4	7044.1	7068.3	7177.3	7080.4	7104.7	7062.3	7032.0
20°	7262.0	7183.3	7189.4	7219.6	7219.6	7292.3	7334.6	7298.3	7274.1	7268.0	7280.2
22.5°	7498.0	7407.2	7413.3	7540.4	7582.7	7558.5	7528.3	7588.8	7600.9	7552.5	7606.9
25°	7673.5	7770.3	7800.6	7861.1	7770.3	7836.9	7812.7	7927.7	8000.3	7903.5	7970.0
27.5°	8133.4	8091.1	8169.7	8163.7	8236.3	8169.7	8212.1	8248.4	8278.7	8284.7	8254.5
30°	8545.0	8563.1	8484.4	8696.2	8526.8	8635.7	8708.3	8726.5	8762.8	8762.8	8672.0
32.5°	8980.7	8944.4	9071.4	9023.0	8992.8	9077.5	8998.8	9246.9	9101.7	9186.4	9083.5
35°	9470.9	9470.9	9519.3	9652.4	9470.9	9416.4	9561.6	9664.5	9664.5	9513.2	9549.5
37.5°	10021.6	9973.1	10033.7	10203.1	10063.9	9882.4	10148.6	10191.0	10160.7	10118.4	10045.8
40°	10408.9	10396.8	10517.8	10741.7	10542.0	10505.7	10554.1	10669.1	10705.4	10747.8	10650.9
42.5°	11062.4	11116.9	11467.9	11413.4	11250.0	11123.0	11110.9	11540.5	11437.6	11328.7	11274.3
45°	12030.7	11982.3	12163.8	12169.9	11958.1	11679.7	11740.2	12133.6	12309.1	12067.0	12157.8
47.5°	12799.3	12823.5	12950.6	13210.8	12720.6	12430.1	12654.0	13289.5	13235.0	13144.2	13228.9
50°	13828.1	13937.0	14336.4	14245.6	13809.9	13452.9	13943.0	14542.1	14608.7	14275.9	14215.4
52.5°	15250.2	15419.6	15637.5	15710.1	15292.6	15165.5	15195.7	15940.1	15776.7	15456.0	15250.2
55°	16496.8	16575.5	16974.9	17574.0	17543.8	16932.6	17283.6	17561.9	16896.2	16236.6	16291.1
57.5°	17029.4	17065.7	18179.2	19377.4	20091.5	20230.7	19831.3	18893.3	17307.8	16036.9	15958.2
60°	15704.1	16049.0	17392.5	20097.6	23359.4	24969.2	22312.5	19044.6	16345.5	14802.4	14687.4
62.5°	12551.2	12569.3	14566.4	18669.4	25392.8	29610.8	23262.6	17622.4	13779.6	12030.7	11570.8
64°	8938.3	9107.8	11401.3	16527.1	24969.2	31498.9	23147.6	15764.6	11359.0	8877.8	8557.1
65°	6414.8	6650.8	8865.7	14348.5	23976.7	31275.0	22802.7	14166.9	9186.4	6777.9	6451.1
67.5°	2360.1	2457.0	3479.7	7177.3	17217.0	26651.5	18070.3	7788.5	4036.5	2874.5	2584.1
70°	1095.4	1101.4	1289.0	2372.3	7528.3	17822.2	8623.6	2923.0	1519.0	1204.3	1119.6
72.5°	804.9	823.0	901.7	1095.4	2214.9	7546.4	2832.2	1198.2	889.6	786.7	768.6
75°	653.6	665.7	689.9	792.8	1022.7	2021.3	1149.8	829.1	708.0	635.4	611.2
77.5°	502.3	502.3	556.8	605.2	677.8	944.1	762.5	659.6	574.9	502.3	484.1
80°	363.1	369.2	435.7	472.0	459.9	623.3	550.7	544.6	472.0	393.4	363.1
82.5°	211.8	230.0	314.7	338.9	326.8	369.2	399.4	423.6	369.2	272.3	248.1
85°	121.0	127.1	181.5	187.6	187.6	175.5	230.0	254.2	248.1	169.4	151.3
87.5°	36.3	36.3	48.4	48.4	54.5	60.5	90.8	108.9	121.0	84.7	78.7
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	6178.7	6178.7	6178.7	6178.7	6178.7	6178.7	6178.7	6178.7	6178.7	6178.7	6178.7
2.5°	6275.6	6184.8	6190.9	6215.1	6136.4	6166.6	6257.4	6190.9	6172.7	6136.4	6118.2
5°	6245.3	6342.1	6305.8	6317.9	6299.8	6215.1	6203.0	6257.4	6287.7	6233.2	6342.1
7.5°	6457.1	6414.8	6366.4	6384.5	6342.1	6414.8	6463.2	6354.2	6408.7	6378.5	6317.9
10°	6578.2	6499.5	6535.8	6523.7	6493.4	6566.1	6517.6	6505.5	6457.1	6390.6	6487.4
12.5°	6620.5	6711.3	6771.8	6668.9	6687.1	6650.8	6620.5	6620.5	6566.1	6547.9	6566.1
15°	6808.1	6886.8	6862.6	6941.3	6838.4	6874.7	6911.0	6820.2	6868.6	6735.5	6838.4
17.5°	7153.1	7086.5	7171.2	7068.3	7104.7	7177.3	7062.3	7062.3	7098.6	7026.0	6935.2
20°	7370.9	7340.7	7310.4	7316.5	7255.9	7322.5	7286.2	7268.0	7213.6	7237.8	7286.2
22.5°	7576.7	7534.3	7546.4	7564.6	7606.9	7576.7	7558.5	7576.7	7443.5	7564.6	7395.1
25°	7830.9	7945.8	7909.5	7988.2	7867.2	7945.8	7939.8	7824.8	7897.4	7849.0	7812.7
27.5°	8254.5	8194.0	8248.4	8151.6	8236.3	8242.4	8169.7	8363.4	8278.7	8266.6	8242.4
30°	8799.1	8756.8	8720.4	8666.0	8732.6	8678.1	8738.6	8756.8	8678.1	8617.6	8502.6
32.5°	9107.8	9222.7	9265.1	9132.0	9138.0	9168.3	9113.8	9059.3	9107.8	9125.9	9107.8
35°	9543.5	9652.4	9676.6	9573.7	9519.3	9670.6	9561.6	9743.2	9585.8	9591.9	9428.5
37.5°	10051.8	10082.1	10287.8	10172.8	10124.4	10051.8	10251.5	10227.3	10263.6	9973.1	10118.4
40°	10626.7	10735.7	10850.6	10560.2	10554.1	10620.7	10608.6	10747.8	10681.2	10638.8	10535.9
42.5°	11256.1	11486.1	11504.2	11310.6	11189.5	11177.4	11237.9	11546.6	11552.6	11274.3	11153.2
45°	12091.2	12345.4	12278.8	11903.6	11770.5	11752.3	12048.9	12182.0	12297.0	12188.1	12085.2
47.5°	13132.1	13301.6	13253.1	12908.2	12478.5	12599.6	12890.0	13307.6	13186.6	13041.3	12920.3
50°	14245.6	14445.3	14342.4	13997.5	13586.0	13586.0	13943.0	14475.6	14439.3	14154.8	14045.9
52.5°	15480.2	15770.6	16006.7	15516.5	15171.5	15226.0	15788.8	15982.4	15891.7	15692.0	15601.2
55°	16400.0	16956.8	17440.9	17465.1	17483.3	17477.2	17622.4	17816.1	17168.6	16847.8	16521.0
57.5°	16176.1	17229.1	18887.2	20012.9	20345.7	20521.2	20472.8	19577.1	18046.1	16993.1	17102.0
60°	14578.5	16297.1	18972.0	22584.8	25005.5	24763.4	23879.9	20339.6	17561.9	15782.7	15558.8
62.5°	11631.3	13701.0	17549.8	23311.0	29979.9	29907.3	25283.9	18578.6	14632.9	12381.7	12242.5
64°	8762.8	10941.4	15655.7	23123.4	31722.8	31795.4	24926.8	16412.1	11449.7	8762.8	8551.0
65°	6705.2	8726.5	13797.8	22736.1	31347.6	31390.0	23934.3	14173.0	8702.3	6221.1	5991.1
67.5°	2668.8	3715.7	7485.9	17241.2	26917.8	26802.8	17077.8	6856.5	3328.4	2166.5	2124.1
70°	1137.7	1416.1	2626.4	8169.7	18021.9	17689.0	7352.8	2227.0	1234.5	1034.8	1028.8
72.5°	780.7	865.4	1125.6	2523.5	7492.0	7316.5	2093.9	1034.8	841.2	774.6	774.6
75°	629.4	689.9	817.0	1059.0	1984.9	1912.3	986.4	762.5	671.7	623.3	617.3
77.5°	490.2	550.7	641.5	732.3	907.7	901.7	659.6	574.9	520.4	484.1	472.0
80°	387.3	447.8	508.3	520.4	593.1	581.0	447.8	453.9	423.6	351.0	344.9
82.5°	266.3	363.1	405.5	369.2	351.0	351.0	320.7	320.7	296.5	217.9	199.7
85°	163.4	242.1	254.2	217.9	163.4	163.4	175.5	169.4	157.3	115.0	108.9
87.5°	84.7	115.0	102.9	84.7	54.5	54.5	48.4	36.3	36.3	30.3	30.3
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)