

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: P478991

Luminaire Tested: **IFLD-S-SA6B-750-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478991
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-750-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

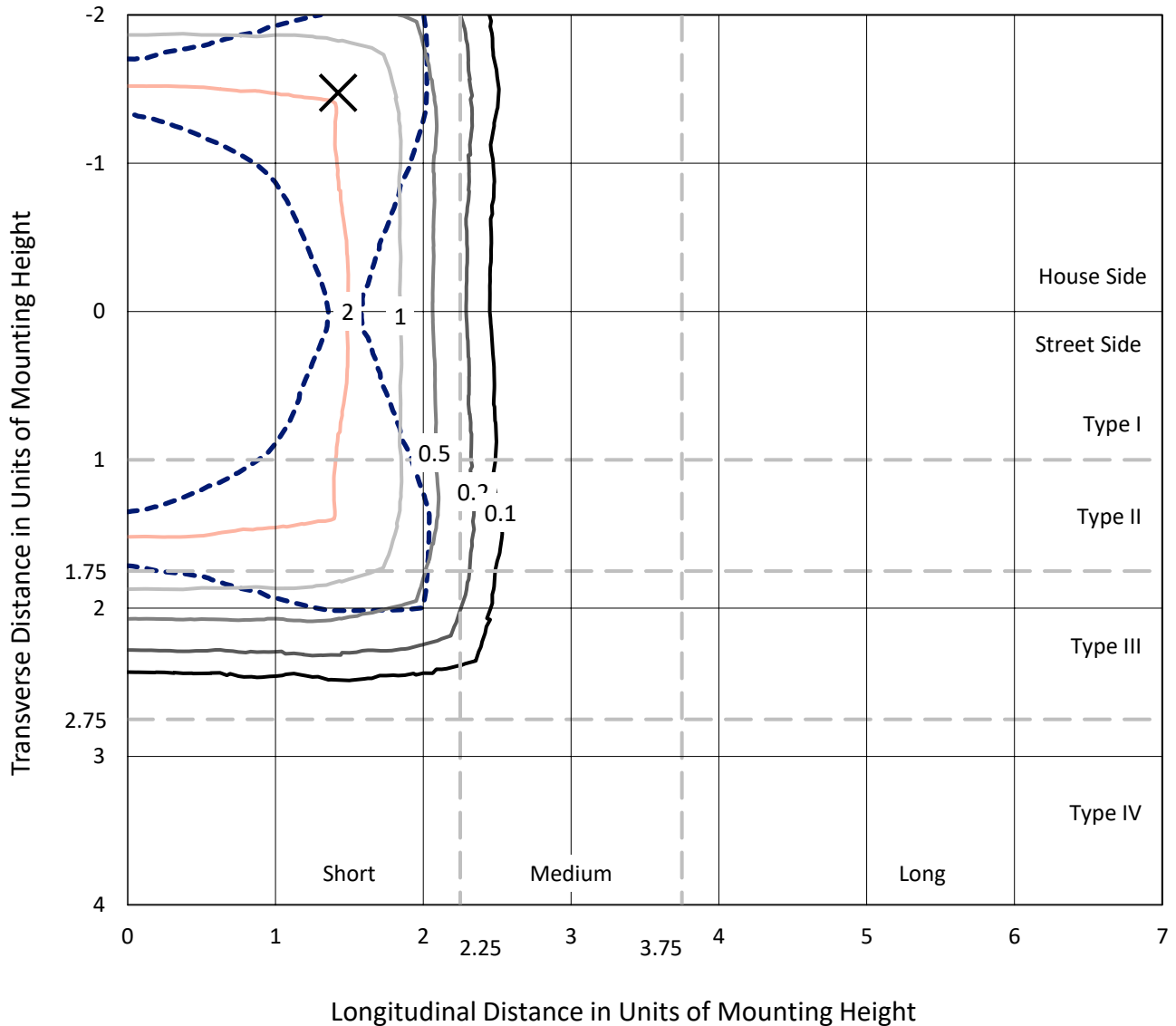
Lumens per Lamp: N/A
Luminaire Lumens: 34054.4 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 244.9
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

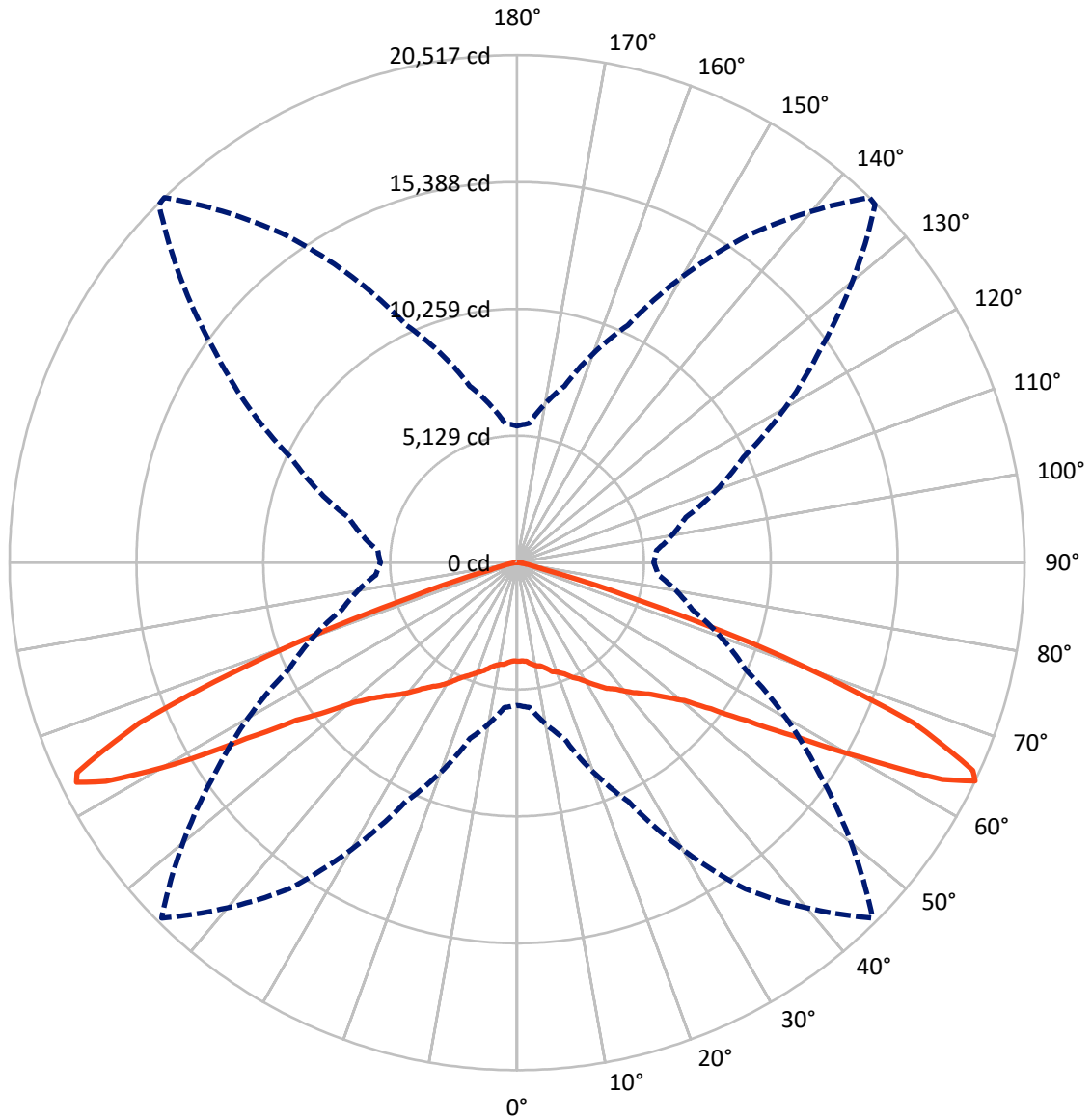
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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	17043.4	0.0	17043.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17011.0	0.0	17011.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34054.4	0.0	34054.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.8	1.2
10°-20°	1262.6	3.7
20°-30°	2373.0	7.0
30°-40°	3913.5	11.5
40°-50°	6120.5	18.0
50°-60°	9889.2	29.0
60°-70°	8904.6	26.1
70°-80°	1054.8	3.1
80°-90°	144.4	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°	34054.4	100.0
0°-180°	34054.4	100.0

Coefficient of Utilization



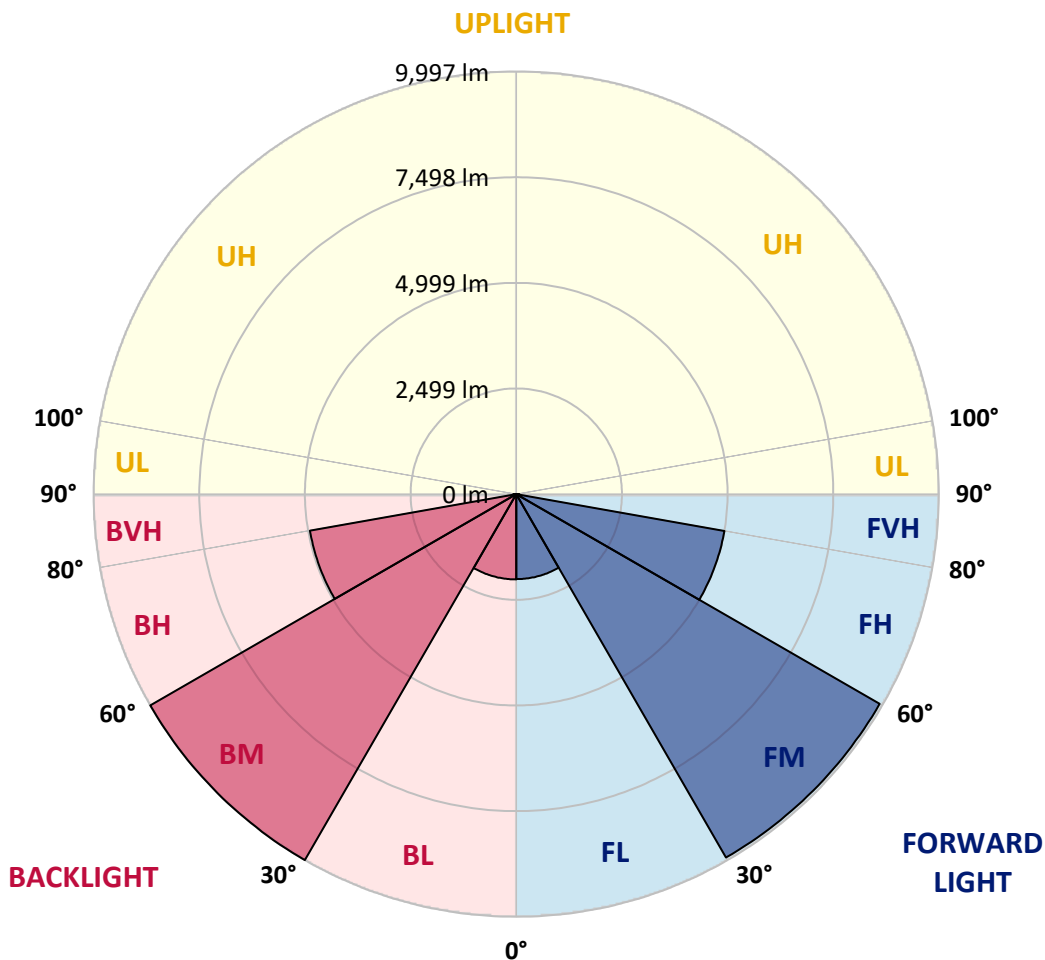
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2009.8	5.9			
FM (30°-60°)	9925.8	29.1			
FH (60°-80°)	5001.3	14.7			G3/7500
FVH (80°-90°)	74.1	0.2			G1/100
BL (0°-30°)	2017.6	5.9	B3/2500		
BM (30°-60°)	9997.4	29.4	B5		
BH (60°-80°)	4958.1	14.6	B4/5000		G2/5000
BVH (80°-90°)	70.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3987.1	3987.1	3987.1	3987.1	3987.1	3987.1	3987.1	3987.1	3987.1	3987.1	3987.1
2.5°	3940.2	3948.0	4018.3	3991.0	4014.4	3971.4	4002.7	4069.1	3991.0	4049.5	4069.1
5°	3983.2	3994.9	3994.9	4022.2	4037.8	4030.0	4049.5	4022.2	4096.4	4065.2	4112.0
7.5°	4139.4	4119.8	4088.6	4112.0	4115.9	4135.5	4155.0	4190.1	4178.4	4151.1	4197.9
10°	4166.7	4151.1	4197.9	4201.8	4182.3	4166.7	4186.2	4186.2	4221.4	4229.2	4229.2
12.5°	4213.6	4229.2	4225.3	4256.5	4260.4	4248.7	4279.9	4338.5	4322.9	4334.6	4307.3
15°	4393.2	4373.7	4369.8	4401.0	4451.8	4377.6	4432.2	4428.3	4412.7	4436.2	4373.7
17.5°	4549.4	4486.9	4514.3	4565.0	4545.5	4561.1	4631.4	4568.9	4584.5	4557.2	4537.7
20°	4686.1	4635.3	4639.2	4658.7	4658.7	4705.6	4732.9	4709.5	4693.9	4690.0	4697.8
22.5°	4838.4	4779.8	4783.7	4865.7	4893.0	4877.4	4857.9	4896.9	4904.8	4873.5	4908.7
25°	4951.6	5014.1	5033.6	5072.7	5014.1	5057.1	5041.4	5115.6	5162.5	5100.0	5143.0
27.5°	5248.4	5221.1	5271.8	5267.9	5314.8	5271.8	5299.2	5322.6	5342.1	5346.0	5326.5
30°	5513.9	5525.7	5474.9	5611.6	5502.2	5572.5	5619.4	5631.1	5654.5	5654.5	5596.0
32.5°	5795.1	5771.7	5853.7	5822.4	5802.9	5857.6	5806.8	5966.9	5873.2	5927.9	5861.5
35°	6111.4	6111.4	6142.7	6228.6	6111.4	6076.3	6170.0	6236.4	6236.4	6138.8	6162.2
37.5°	6466.8	6435.5	6474.6	6583.9	6494.1	6377.0	6548.8	6576.1	6556.6	6529.3	6482.4
40°	6716.7	6708.9	6787.0	6931.5	6802.6	6779.2	6810.4	6884.6	6908.1	6935.4	6872.9
42.5°	7138.5	7173.6	7400.1	7364.9	7259.5	7177.5	7169.7	7447.0	7380.6	7310.3	7275.1
45°	7763.3	7732.0	7849.2	7853.1	7716.4	7536.8	7575.8	7829.6	7942.9	7786.7	7845.3
47.5°	8259.2	8274.8	8356.8	8524.8	8208.4	8021.0	8165.5	8575.5	8540.4	8481.8	8536.5
50°	8923.1	8993.4	9251.1	9192.5	8911.4	8681.0	8997.3	9383.9	9426.8	9212.0	9173.0
52.5°	9840.8	9950.1	10090.7	10137.5	9868.1	9786.1	9805.6	10285.9	10180.5	9973.5	9840.8
55°	10645.2	10696.0	10953.7	11340.3	11320.8	10926.4	11152.9	11332.5	10902.9	10477.3	10512.4
57.5°	10988.8	11012.3	11730.8	12504.0	12964.8	13054.6	12796.9	12191.6	11168.5	10348.4	10297.6
60°	10133.6	10356.2	11223.1	12968.7	15073.5	16112.3	14398.0	12289.2	10547.6	9551.8	9477.6
62.5°	8099.1	8110.8	9399.5	12047.1	16385.6	19107.5	15011.1	11371.5	8891.8	7763.3	7466.5
64°	5767.8	5877.1	7357.1	10664.7	16112.3	20325.8	14936.9	10172.7	7329.8	5728.7	5521.8
65°	4139.4	4291.7	5720.9	9258.9	15471.9	20181.4	14714.3	9141.8	5927.9	4373.7	4162.8
67.5°	1523.0	1585.5	2245.4	4631.4	11109.9	17197.9	11660.5	5025.8	2604.7	1854.9	1667.5
70°	706.8	710.7	831.8	1530.8	4857.9	11500.4	5564.7	1886.1	980.2	777.1	722.4
72.5°	519.4	531.1	581.9	706.8	1429.3	4869.6	1827.6	773.2	574.0	507.7	495.9
75°	421.7	429.6	445.2	511.6	660.0	1304.3	742.0	535.0	456.9	410.0	394.4
77.5°	324.1	324.1	359.3	390.5	437.4	609.2	492.0	425.7	371.0	324.1	312.4
80°	234.3	238.2	281.2	304.6	296.8	402.2	355.4	351.5	304.6	253.8	234.3
82.5°	136.7	148.4	203.1	218.7	210.9	238.2	257.7	273.4	238.2	175.7	160.1
85°	78.1	82.0	117.2	121.1	121.1	113.2	148.4	164.0	160.1	109.3	97.6
87.5°	23.4	23.4	31.2	31.2	35.1	39.1	58.6	70.3	78.1	54.7	50.8
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	3987.1	3987.1	3987.1	3987.1	3987.1	3987.1	3987.1	3987.1	3987.1	3987.1	3987.1
2.5°	4049.5	3991.0	3994.9	4010.5	3959.7	3979.3	4037.8	3994.9	3983.2	3959.7	3948.0
5°	4030.0	4092.5	4069.1	4076.9	4065.2	4010.5	4002.7	4037.8	4057.4	4022.2	4092.5
7.5°	4166.7	4139.4	4108.1	4119.8	4092.5	4139.4	4170.6	4100.3	4135.5	4115.9	4076.9
10°	4244.8	4194.0	4217.5	4209.7	4190.1	4237.0	4205.8	4197.9	4166.7	4123.7	4186.2
12.5°	4272.1	4330.7	4369.8	4303.4	4315.1	4291.7	4272.1	4272.1	4237.0	4225.3	4237.0
15°	4393.2	4444.0	4428.3	4479.1	4412.7	4436.2	4459.6	4401.0	4432.2	4346.3	4412.7
17.5°	4615.8	4572.8	4627.5	4561.1	4584.5	4631.4	4557.2	4557.2	4580.6	4533.8	4475.2
20°	4756.4	4736.8	4717.3	4721.2	4682.2	4725.1	4701.7	4690.0	4654.8	4670.5	4701.7
22.5°	4889.1	4861.8	4869.6	4881.3	4908.7	4889.1	4877.4	4889.1	4803.2	4881.3	4772.0
25°	5053.2	5127.3	5103.9	5154.7	5076.6	5127.3	5123.4	5049.2	5096.1	5064.9	5041.4
27.5°	5326.5	5287.5	5322.6	5260.1	5314.8	5318.7	5271.8	5396.8	5342.1	5334.3	5318.7
30°	5678.0	5650.6	5627.2	5592.0	5635.0	5599.9	5638.9	5650.6	5599.9	5560.8	5486.6
32.5°	5877.1	5951.3	5978.7	5892.7	5896.6	5916.2	5881.0	5845.9	5877.1	5888.8	5877.1
35°	6158.3	6228.6	6244.2	6177.8	6142.7	6240.3	6170.0	6287.2	6185.6	6189.5	6084.1
37.5°	6486.3	6505.8	6638.6	6564.4	6533.2	6486.3	6615.2	6599.6	6623.0	6435.5	6529.3
40°	6857.3	6927.6	7001.8	6814.3	6810.4	6853.4	6845.6	6935.4	6892.4	6865.1	6798.7
42.5°	7263.4	7411.8	7423.5	7298.6	7220.5	7212.6	7251.7	7450.9	7454.8	7275.1	7197.0
45°	7802.3	7966.3	7923.4	7681.3	7595.3	7583.6	7775.0	7860.9	7935.1	7864.8	7798.4
47.5°	8474.0	8583.3	8552.1	8329.5	8052.2	8130.3	8317.8	8587.2	8509.1	8415.4	8337.3
50°	9192.5	9321.4	9255.0	9032.4	8766.9	8766.9	8997.3	9340.9	9317.5	9133.9	9063.6
52.5°	9989.1	10176.6	10328.9	10012.6	9790.0	9825.1	10188.3	10313.3	10254.7	10125.8	10067.3
55°	10582.7	10942.0	11254.4	11270.0	11281.7	11277.8	11371.5	11496.5	11078.7	10871.7	10660.8
57.5°	10438.2	11117.7	12187.7	12914.0	13128.8	13242.1	13210.8	12632.9	11644.9	10965.4	11035.7
60°	9407.3	10516.3	12242.4	14573.7	16135.7	15979.5	15409.4	13124.9	11332.5	10184.4	10039.9
62.5°	7505.5	8841.1	11324.7	15042.3	19345.7	19298.8	16315.3	11988.5	9442.4	7989.8	7899.9
64°	5654.5	7060.4	10102.4	14921.2	20470.3	20517.2	16085.0	10590.5	7388.4	5654.5	5517.9
65°	4326.8	5631.1	8903.5	14671.3	20228.2	20255.6	15444.5	9145.7	5615.5	4014.4	3866.0
67.5°	1722.1	2397.7	4830.6	11125.5	17369.7	17295.5	11020.1	4424.4	2147.8	1398.0	1370.7
70°	734.2	913.8	1694.8	5271.8	11629.3	11414.5	4744.7	1437.1	796.6	667.8	663.9
72.5°	503.8	558.4	726.3	1628.4	4834.5	4721.2	1351.2	667.8	542.8	499.8	499.8
75°	406.1	445.2	527.2	683.4	1280.9	1234.0	636.5	492.0	433.5	402.2	398.3
77.5°	316.3	355.4	413.9	472.5	585.8	581.9	425.7	371.0	335.8	312.4	304.6
80°	249.9	289.0	328.0	335.8	382.7	374.9	289.0	292.9	273.4	226.5	222.6
82.5°	171.8	234.3	261.6	238.2	226.5	226.5	207.0	207.0	191.3	140.6	128.9
85°	105.4	156.2	164.0	140.6	105.4	105.4	113.2	109.3	101.5	74.2	70.3
87.5°	54.7	74.2	66.4	54.7	35.1	35.1	31.2	23.4	23.4	19.5	19.5
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)