

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: P480362

Luminaire Tested: **IFLD-M-SA4C-722-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480362
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-722-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

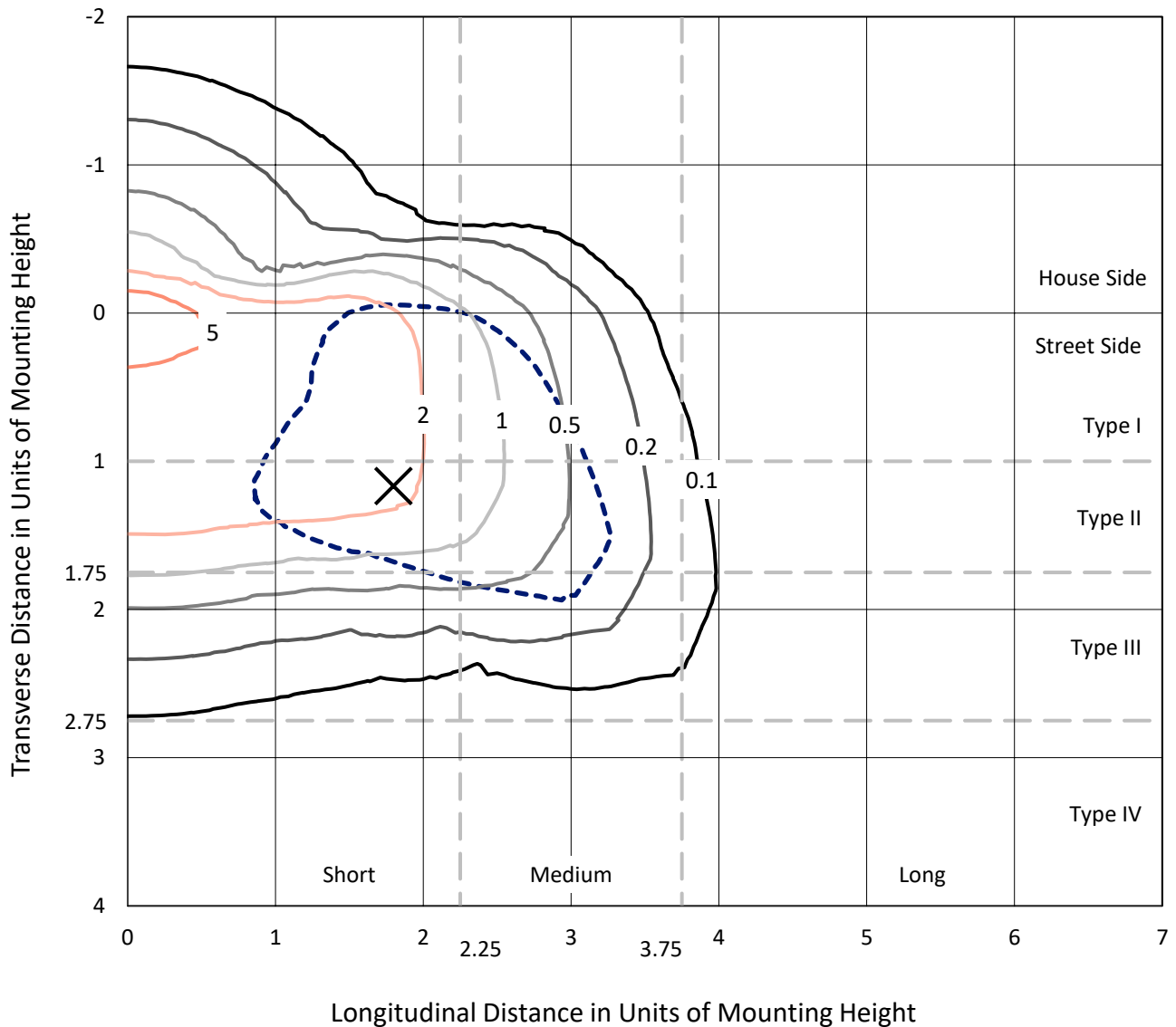
Lumens per Lamp: N/A
Luminaire Lumens: 20664.8 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 218.1
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

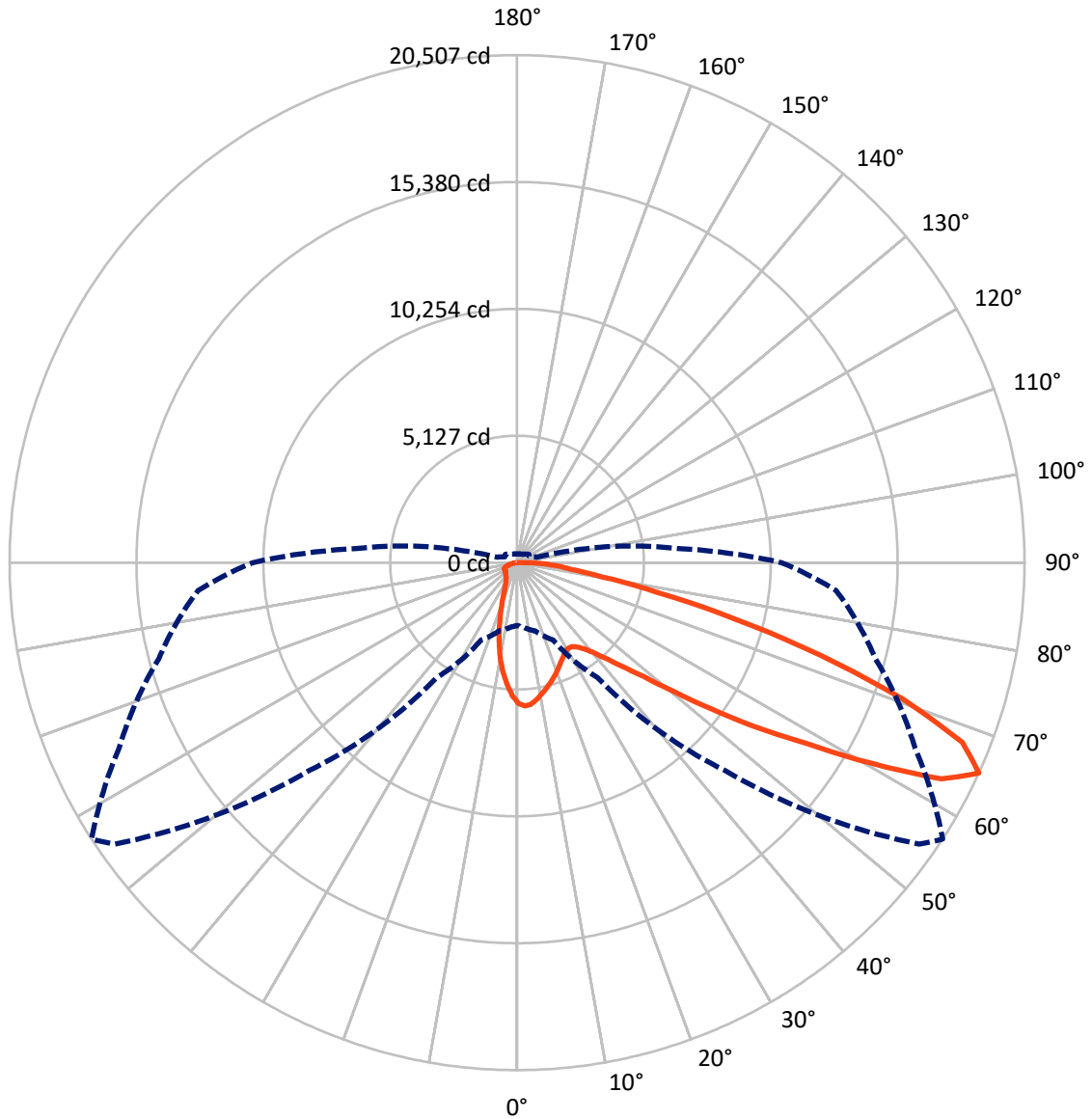
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3169.2	0.0	3169.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	17495.6	0.0	17495.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	20664.8	0.0	20664.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.9	2.3
10°-20°	1024.1	5.0
20°-30°	1324.1	6.4
30°-40°	1781.8	8.6
40°-50°	2841.2	13.7
50°-60°	5018.3	24.3
60°-70°	5520.8	26.7
70°-80°	2309.4	11.2
80°-90°	369.1	1.8
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°	20664.8	100.0
0°-180°	20664.8	100.0

Coefficient of Utilization



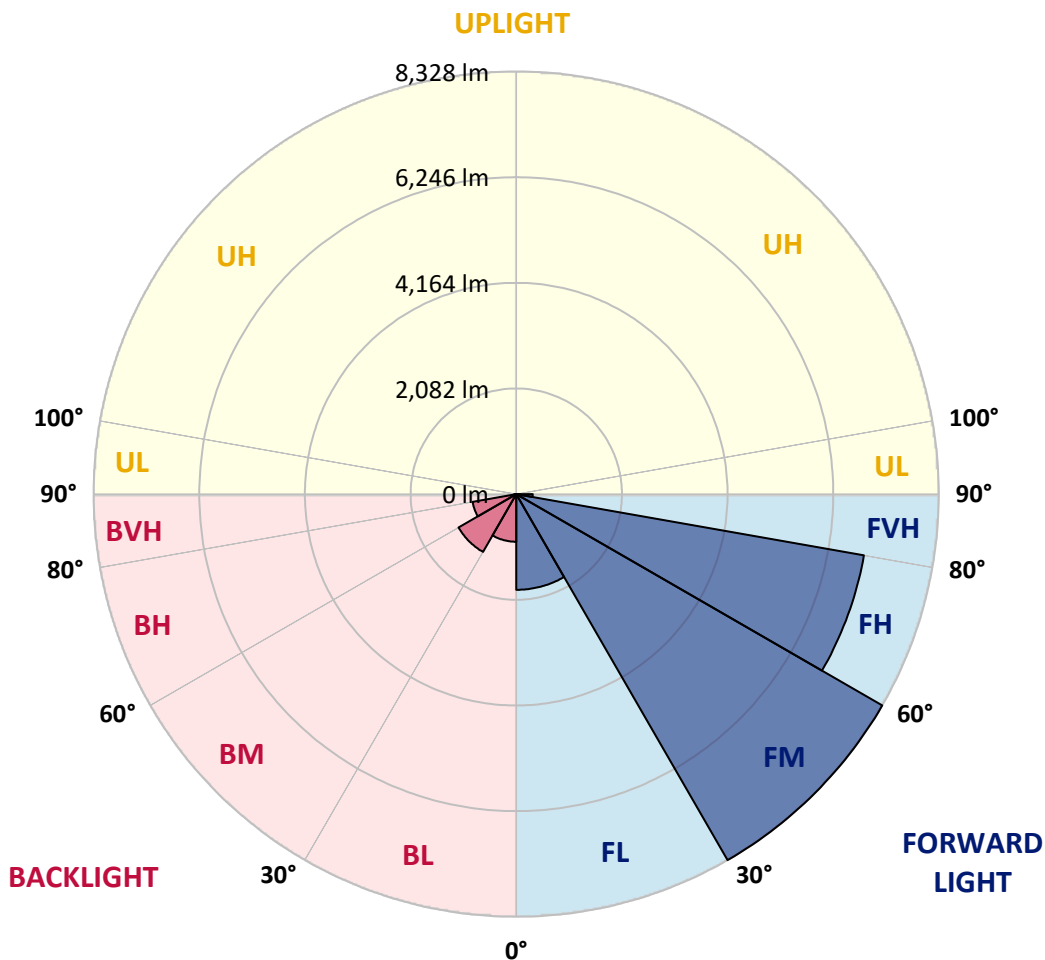
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1885.6	9.1			
FM (30°-60°)	8327.9	40.3			
FH (60°-80°)	6956.4	33.7			G3/7500
FVH (80°-90°)	325.8	1.6			G3/500
BL (0°-30°)	938.5	4.5	B2/1000		
BM (30°-60°)	1313.5	6.4	B2/2500		
BH (60°-80°)	873.8	4.2	B2/1000		G2/1000
BVH (80°-90°)	43.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5682.5	5682.5	5682.5	5682.5	5682.5	5682.5	5682.5	5682.5	5682.5	5682.5	5682.5
2.5°	5836.0	5845.3	5845.3	5863.9	5801.1	5831.3	5826.7	5798.8	5808.1	5759.2	5710.4
5°	5670.9	5663.9	5701.1	5705.8	5754.6	5768.6	5780.2	5761.6	5766.2	5659.3	5612.8
7.5°	5247.7	5245.4	5308.2	5361.7	5464.0	5559.3	5622.1	5603.5	5629.0	5561.6	5452.3
10°	4745.5	4799.0	4864.1	4917.6	5105.9	5226.8	5389.6	5405.8	5503.5	5487.2	5289.6
12.5°	4368.8	4392.1	4440.9	4594.4	4766.4	4966.4	5198.9	5219.8	5315.2	5361.7	5189.6
15°	4059.6	4080.5	4143.3	4257.2	4450.2	4687.4	4982.7	5036.1	5226.8	5243.1	5059.4
17.5°	3834.1	3850.4	3892.2	4006.1	4164.2	4468.8	4747.8	4843.2	5094.3	5173.3	4924.5
20°	3745.7	3710.8	3734.1	3806.2	3964.3	4199.1	4559.5	4643.2	4964.1	5119.8	4796.7
22.5°	3706.2	3676.0	3689.9	3685.3	3810.8	3978.2	4357.2	4445.6	4840.8	5057.1	4682.7
25°	3736.4	3736.4	3722.5	3710.8	3724.8	3834.1	4138.7	4275.8	4675.8	5003.6	4566.5
27.5°	3899.2	3836.4	3843.4	3794.5	3780.6	3780.6	4041.0	4122.4	4622.3	4973.4	4471.1
30°	4003.8	4034.0	4036.4	3964.3	3892.2	3762.0	3950.3	4029.4	4578.1	5010.6	4415.3
32.5°	4271.2	4257.2	4217.7	4203.8	4096.8	3950.3	3994.5	4048.0	4552.5	5094.3	4431.6
35°	4538.6	4531.6	4533.9	4527.0	4415.3	4199.1	4113.1	4185.2	4599.0	5240.8	4487.4
37.5°	4815.3	4833.9	4912.9	4912.9	4794.3	4559.5	4445.6	4424.6	4768.8	5480.2	4620.0
40°	5091.9	5138.5	5238.4	5396.5	5229.1	5010.6	4826.9	4794.3	4973.4	5801.1	4938.5
42.5°	5357.0	5433.7	5631.4	5866.2	5810.4	5591.8	5347.7	5310.5	5394.2	6277.7	5382.6
45°	5696.5	5761.6	6073.1	6433.5	6510.3	6317.3	6031.3	6001.1	5996.4	6975.3	5994.1
47.5°	6212.6	6282.4	6594.0	6956.7	7193.8	7224.1	6903.2	6870.6	6759.0	7916.9	6889.2
50°	6859.0	6972.9	7235.7	7658.8	8003.0	8326.1	8235.5	8140.1	7921.6	9012.1	8023.9
52.5°	7331.0	7470.5	7826.3	8368.0	8974.9	9488.7	9814.2	9814.2	9312.0	10214.1	9388.7
55°	7456.6	7540.3	7989.0	8772.6	9811.9	11111.6	11792.9	11741.7	10967.5	11479.0	10976.8
57.5°	6956.7	7066.0	7610.0	8430.8	10251.3	12629.9	13757.6	13769.2	12776.4	12948.4	12543.9
60°	5580.2	5615.1	6256.8	7354.3	9828.2	13852.9	16440.7	16484.9	14834.1	14257.5	13341.4
62.5°	3857.3	3968.9	4452.5	5415.1	8142.5	13715.7	19028.5	19247.1	16482.6	14948.0	13466.9
65°	2539.0	2606.4	2864.5	3450.4	5668.6	11888.2	19833.0	20507.3	17742.8	14987.5	12941.5
67.5°	1841.5	1853.1	1929.8	2232.1	3406.3	8549.4	18458.9	19409.9	18214.8	14657.4	11709.2
70°	1488.1	1497.4	1525.3	1718.2	2199.5	5350.0	15055.0	16545.3	16798.8	13092.6	9430.6
72.5°	1209.0	1220.7	1255.5	1436.9	1813.6	2976.1	11009.3	12825.2	13664.6	9686.3	6268.4
75°	951.0	960.3	1044.0	1223.0	1704.3	2043.8	7303.1	9081.8	9195.7	5661.6	2934.3
77.5°	651.0	667.3	769.6	1037.0	1604.3	1788.0	4552.5	5817.4	5219.8	2215.8	1009.1
80°	413.9	437.1	497.6	785.9	1418.3	1706.6	2832.0	3473.7	2285.6	758.0	485.9
82.5°	244.1	267.4	327.8	509.2	1113.7	1583.4	1994.9	2174.0	1071.9	388.3	293.0
85°	134.9	151.1	197.6	306.9	653.4	1406.7	1597.3	1560.1	613.8	206.9	183.7
87.5°	44.2	51.2	72.1	123.2	269.7	662.7	957.9	899.8	318.5	95.3	72.1
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°	5682.5	5682.5	5682.5	5682.5	5682.5	5682.5	5682.5	5682.5	5682.5	5682.5	5682.5
2.5°	5677.9	5670.9	5566.3	5487.2	5352.4	5240.8	5196.6	5136.1	5133.8	5089.6	5078.0
5°	5540.7	5468.6	5308.2	5154.7	4915.2	4754.8	4608.3	4506.0	4464.2	4373.5	4352.6
7.5°	5364.0	5268.7	5022.2	4733.9	4452.5	4201.4	3973.6	3745.7	3617.8	3573.7	3524.8
10°	5180.3	5012.9	4647.9	4324.7	3931.7	3545.8	3187.7	2866.8	2692.5	2569.2	2515.7
12.5°	5033.8	4810.6	4345.6	3862.0	3343.5	2827.3	2411.1	2074.0	1876.3	1783.3	1741.5
15°	4868.7	4573.5	4015.4	3403.9	2757.6	2171.6	1764.7	1499.7	1420.6	1376.5	1369.5
17.5°	4694.4	4352.6	3657.4	2952.9	2185.6	1634.5	1371.8	1264.8	1230.0	1211.4	1202.1
20°	4531.6	4154.9	3290.0	2450.6	1711.3	1311.4	1188.1	1132.3	1130.0	1139.3	1137.0
22.5°	4301.4	3896.9	2927.3	1985.6	1367.2	1141.6	1062.6	1048.6	1062.6	1074.2	1078.8
25°	4171.2	3685.3	2522.7	1576.4	1130.0	1013.7	988.2	983.5	1004.4	1018.4	1016.1
27.5°	4036.4	3466.7	2146.1	1262.5	990.5	923.1	918.4	923.1	944.0	964.9	962.6
30°	3931.7	3292.3	1792.6	1055.6	883.5	858.0	853.3	858.0	869.6	871.9	871.9
32.5°	3845.7	3085.4	1492.7	916.1	818.4	797.5	802.2	799.8	802.2	804.5	806.8
35°	3794.5	2962.2	1246.2	830.1	765.0	748.7	746.4	739.4	741.7	744.0	741.7
37.5°	3903.8	2901.7	1050.9	769.6	727.8	713.8	709.2	704.5	697.5	697.5	697.5
40°	4068.9	2869.2	932.4	730.1	699.9	683.6	669.6	665.0	665.0	667.3	669.6
42.5°	4396.7	2922.6	851.0	699.9	665.0	646.4	632.4	634.7	641.7	648.7	644.1
45°	4871.1	3085.4	813.8	676.6	644.1	618.5	609.2	606.8	613.8	625.4	634.7
47.5°	5491.9	3338.8	799.8	655.7	630.1	595.2	583.6	590.6	599.9	616.1	609.2
50°	6507.9	3908.5	811.5	637.1	609.2	583.6	569.6	562.7	569.6	581.3	585.9
52.5°	7835.6	4943.1	855.6	627.8	595.2	574.3	551.0	539.4	546.4	555.7	555.7
55°	9423.6	6356.8	978.9	616.1	572.0	560.3	534.8	511.5	516.2	516.2	513.8
57.5°	10823.3	7424.0	1125.3	599.9	558.0	541.7	509.2	481.3	476.6	479.0	481.3
60°	11451.1	7707.7	1195.1	595.2	558.0	518.5	474.3	446.4	439.4	434.8	434.8
62.5°	11341.8	7217.1	1053.3	574.3	572.0	499.9	441.8	411.5	402.2	392.9	395.3
65°	10681.5	6517.2	830.1	546.4	574.3	488.3	409.2	379.0	362.7	351.1	348.8
67.5°	9474.7	5563.9	658.0	525.5	551.0	467.3	381.3	346.4	332.5	320.9	316.2
70°	7412.4	4361.9	572.0	497.6	495.2	416.2	348.8	318.5	297.6	283.7	283.7
72.5°	4806.0	2757.6	490.6	441.8	427.8	348.8	302.3	283.7	267.4	255.8	255.8
75°	2176.3	1281.1	395.3	369.7	348.8	279.0	255.8	246.5	232.5	220.9	220.9
77.5°	781.2	546.4	295.3	290.6	260.4	216.2	206.9	200.0	190.7	179.0	179.0
80°	437.1	346.4	220.9	211.6	181.4	160.4	148.8	148.8	144.2	137.2	134.9
82.5°	276.7	225.5	162.8	141.8	118.6	107.0	102.3	100.0	97.7	88.4	86.0
85°	174.4	153.5	107.0	83.7	69.8	53.5	51.2	48.8	44.2	39.5	39.5
87.5°	79.1	88.4	41.9	25.6	18.6	11.6	7.0	2.3	0.0	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)