

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: P480656

Luminaire Tested: **IFLD-S-SA3E-830-U-SL3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P480656
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-830-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

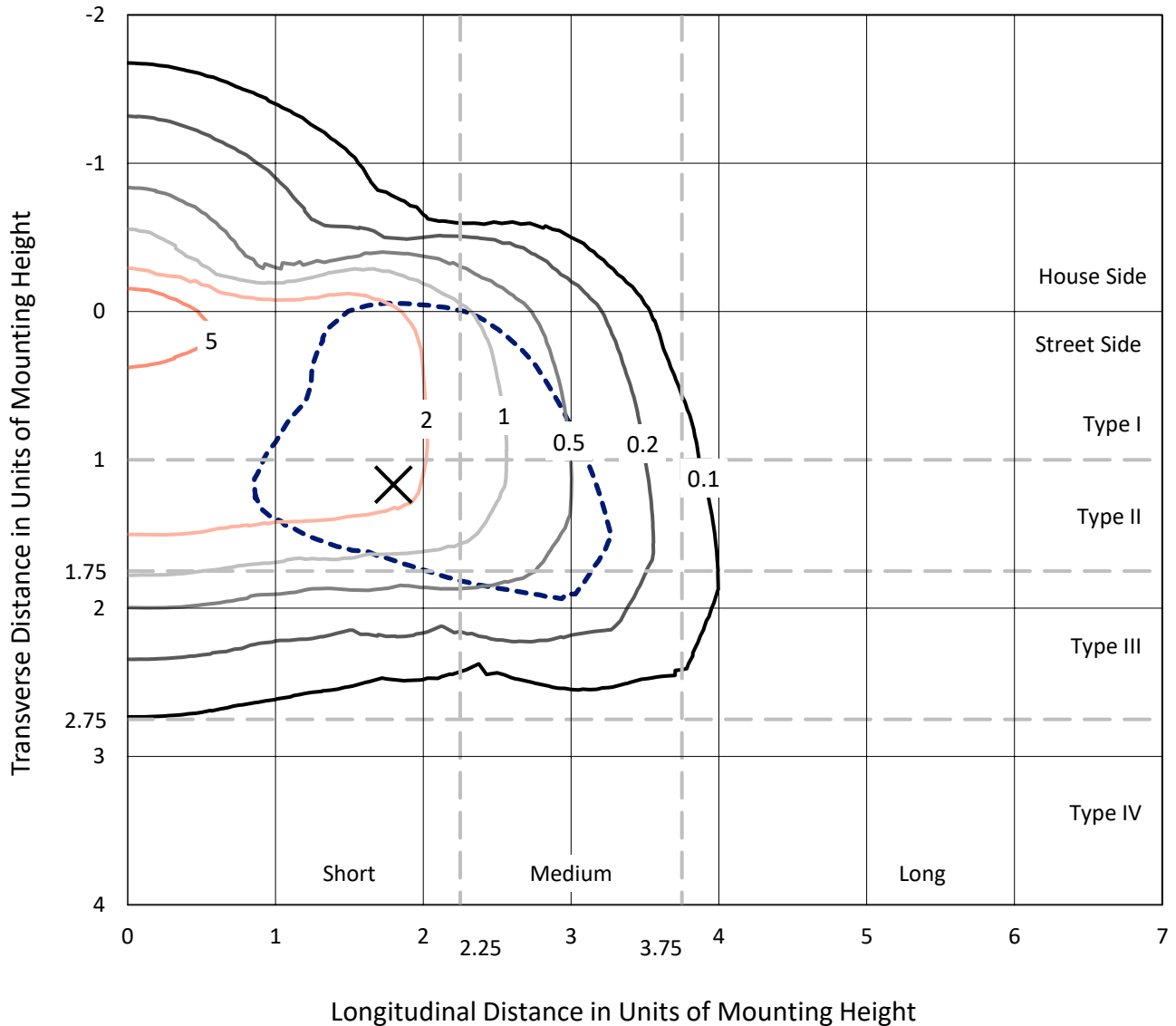
Lumens per Lamp: N/A
Luminaire Lumens: 21148.5 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 232.1
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

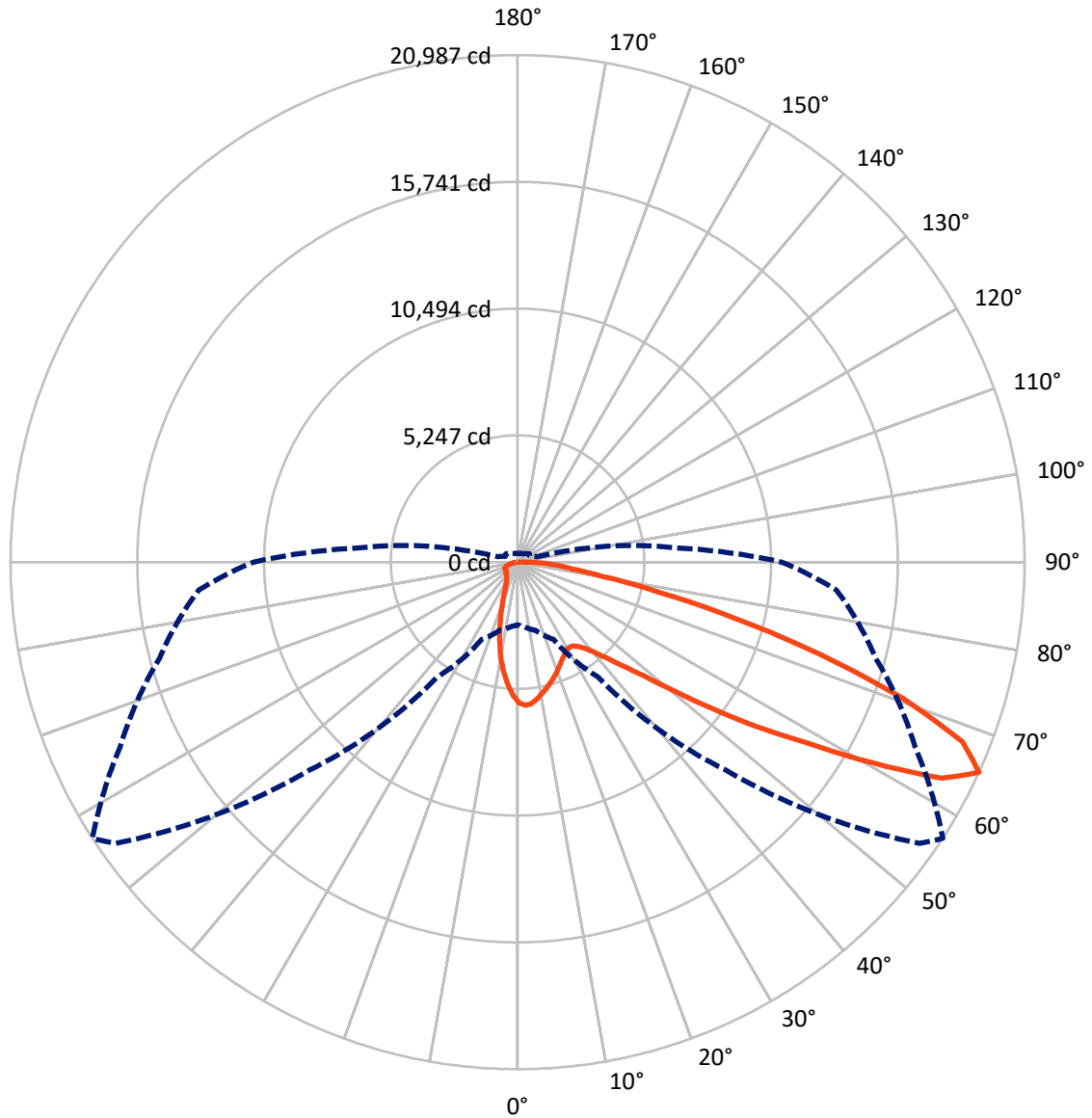
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	3243.3	0.0	3243.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	17905.2	0.0	17905.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	21148.5	0.0	21148.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.0	2.3
10°-20°	1048.1	5.0
20°-30°	1355.1	6.4
30°-40°	1823.5	8.6
40°-50°	2907.7	13.7
50°-60°	5135.8	24.3
60°-70°	5650.0	26.7
70°-80°	2363.5	11.2
80°-90°	377.7	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°	21148.5	100.0
0°-180°	21148.5	100.0

Coefficient of Utilization



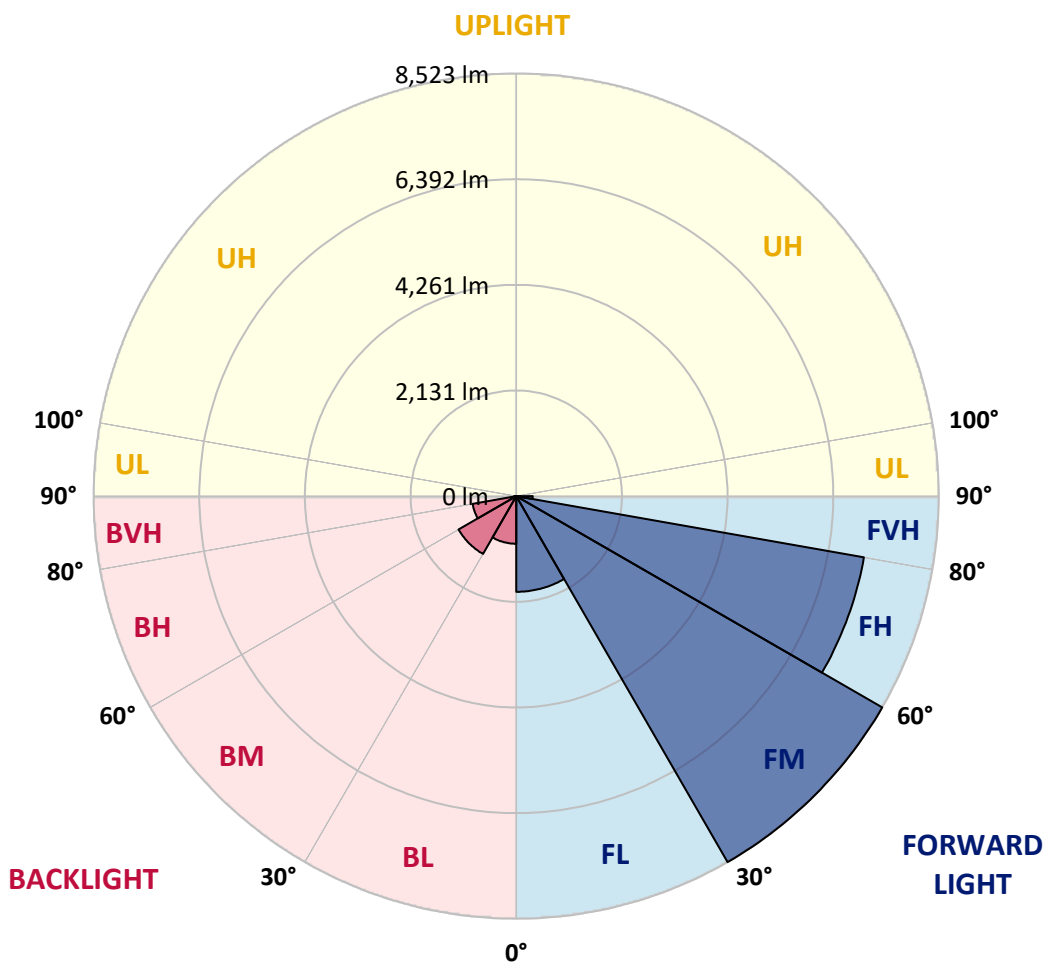
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1929.7	9.1			
FM (30°-60°)	8522.8	40.3			
FH (60°-80°)	7119.2	33.7			G3/7500
FVH (80°-90°)	333.4	1.6			G3/500
BL (0°-30°)	960.5	4.5	B2/1000		
BM (30°-60°)	1344.2	6.4	B2/2500		
BH (60°-80°)	894.3	4.2	B2/1000		G2/1000
BVH (80°-90°)	44.3	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°	5815.5	5815.5	5815.5	5815.5	5815.5	5815.5	5815.5	5815.5	5815.5	5815.5	5815.5
2.5°	5972.6	5982.1	5982.1	6001.1	5936.9	5967.8	5963.1	5934.5	5944.0	5894.1	5844.1
5°	5803.6	5796.5	5834.6	5839.3	5889.3	5903.6	5915.5	5896.4	5901.2	5791.7	5744.2
7.5°	5370.6	5368.2	5432.4	5487.2	5591.9	5689.4	5753.7	5734.6	5760.8	5691.8	5580.0
10°	4856.6	4911.3	4978.0	5032.7	5225.4	5349.2	5515.7	5532.4	5632.3	5615.7	5413.4
12.5°	4471.1	4494.9	4544.9	4701.9	4878.0	5082.7	5320.6	5342.0	5439.6	5487.2	5311.1
15°	4154.6	4176.1	4240.3	4356.9	4554.4	4797.1	5099.3	5154.0	5349.2	5365.8	5177.8
17.5°	3923.8	3940.5	3983.3	4099.9	4261.7	4573.4	4859.0	4956.5	5213.5	5294.4	5039.8
20°	3833.4	3797.7	3821.5	3895.3	4057.1	4297.4	4666.2	4751.9	5080.3	5239.7	4908.9
22.5°	3793.0	3762.0	3776.3	3771.5	3900.0	4071.4	4459.2	4549.6	4954.2	5175.5	4792.3
25°	3823.9	3823.9	3809.6	3797.7	3812.0	3923.8	4235.5	4375.9	4785.2	5120.7	4673.4
27.5°	3990.5	3926.2	3933.3	3883.4	3869.1	3869.1	4135.6	4218.9	4730.5	5089.8	4575.8
30°	4097.5	4128.5	4130.8	4057.1	3983.3	3850.1	4042.8	4123.7	4685.3	5127.9	4518.7
32.5°	4371.2	4356.9	4316.4	4302.2	4192.7	4042.8	4088.0	4142.7	4659.1	5213.5	4535.4
35°	4644.8	4637.7	4640.1	4632.9	4518.7	4297.4	4209.4	4283.1	4706.7	5363.4	4592.5
37.5°	4928.0	4947.0	5027.9	5027.9	4906.6	4666.2	4549.6	4528.2	4880.4	5608.5	4728.1
40°	5211.1	5258.7	5361.1	5522.9	5351.5	5127.9	4939.9	4906.6	5089.8	5936.9	5054.1
42.5°	5482.4	5560.9	5763.2	6003.5	5946.4	5722.7	5472.9	5434.8	5520.5	6424.7	5508.6
45°	5829.8	5896.4	6215.3	6584.1	6662.7	6465.2	6172.5	6141.5	6136.8	7138.6	6134.4
47.5°	6358.1	6429.5	6748.3	7119.5	7362.2	7393.2	7064.8	7031.5	6917.3	8102.3	7050.5
50°	7019.6	7136.2	7405.1	7838.1	8190.3	8521.1	8428.3	8330.7	8107.0	9223.0	8211.7
52.5°	7502.6	7645.4	8009.5	8563.9	9184.9	9710.8	10043.9	10043.9	9530.0	10453.2	9608.5
55°	7631.1	7716.8	8176.0	8977.9	10041.6	11371.7	12068.9	12016.6	11224.2	11747.7	11233.7
57.5°	7119.5	7231.4	7788.2	8628.1	10491.3	12925.5	14079.6	14091.5	13075.5	13251.5	12837.5
60°	5710.8	5746.5	6403.3	7526.4	10058.2	14177.2	16825.6	16870.8	15181.3	14591.2	13653.7
62.5°	3947.6	4061.8	4556.8	5541.9	8333.1	14036.8	19474.0	19697.7	16868.4	15297.9	13782.2
65°	2598.4	2667.4	2931.6	3531.2	5801.3	12166.5	20297.3	20987.4	18158.1	15338.4	13244.4
67.5°	1884.6	1896.5	1975.0	2284.3	3486.0	8749.5	18891.0	19864.2	18641.1	15000.5	11983.3
70°	1522.9	1532.4	1561.0	1758.5	2251.0	5475.3	15407.4	16932.7	17192.0	13399.1	9651.3
72.5°	1237.3	1249.2	1284.9	1470.5	1856.0	3045.8	11267.0	13125.4	13984.4	9913.1	6415.2
75°	973.2	982.7	1068.4	1251.6	1744.2	2091.6	7474.1	9294.4	9411.0	5794.1	3003.0
77.5°	666.3	682.9	787.6	1061.3	1641.9	1829.8	4659.1	5953.6	5342.0	2267.7	1032.7
80°	423.6	447.3	509.2	804.3	1451.5	1746.6	2898.3	3555.0	2339.1	775.7	497.3
82.5°	249.8	273.6	335.5	521.1	1139.8	1620.5	2041.6	2224.8	1097.0	397.4	299.8
85°	138.0	154.7	202.3	314.1	668.6	1439.6	1634.7	1596.7	628.2	211.8	188.0
87.5°	45.2	52.3	73.8	126.1	276.0	678.2	980.4	920.9	326.0	97.6	73.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5815.5	5815.5	5815.5	5815.5	5815.5	5815.5	5815.5	5815.5	5815.5	5815.5	5815.5
2.5°	5810.8	5803.6	5696.6	5615.7	5477.7	5363.4	5318.2	5256.4	5254.0	5208.8	5196.9
5°	5670.4	5596.6	5432.4	5275.4	5030.3	4866.1	4716.2	4611.5	4568.7	4475.9	4454.5
7.5°	5489.5	5392.0	5139.8	4844.7	4556.8	4299.8	4066.6	3833.4	3702.5	3657.3	3607.3
10°	5301.6	5130.2	4756.7	4425.9	4023.8	3628.8	3262.3	2933.9	2755.5	2629.4	2574.6
12.5°	5151.7	4923.2	4447.3	3952.4	3421.7	2893.5	2467.6	2122.5	1920.3	1825.1	1782.3
15°	4982.7	4680.5	4109.4	3483.6	2822.1	2222.5	1806.1	1534.8	1453.9	1408.7	1401.5
17.5°	4804.2	4454.5	3743.0	3022.0	2236.7	1672.8	1403.9	1294.5	1258.8	1239.7	1230.2
20°	4637.7	4252.2	3367.0	2508.0	1751.3	1342.0	1215.9	1158.8	1156.4	1166.0	1163.6
22.5°	4402.1	3988.1	2995.8	2032.1	1399.2	1168.3	1087.4	1073.2	1087.4	1099.3	1104.1
25°	4268.9	3771.5	2581.8	1613.3	1156.4	1037.5	1011.3	1006.5	1028.0	1042.2	1039.8
27.5°	4130.8	3547.9	2196.3	1292.1	1013.7	944.7	939.9	944.7	966.1	987.5	985.1
30°	4023.8	3369.4	1834.6	1080.3	904.2	878.0	873.3	878.0	889.9	892.3	892.3
32.5°	3935.7	3157.6	1527.7	937.5	837.6	816.2	820.9	818.6	820.9	823.3	825.7
35°	3883.4	3031.5	1275.4	849.5	782.9	766.2	763.8	756.7	759.1	761.4	759.1
37.5°	3995.2	2969.6	1075.5	787.6	744.8	730.5	725.8	721.0	713.9	713.9	713.9
40°	4164.2	2936.3	954.2	747.2	716.2	699.6	685.3	680.5	680.5	682.9	685.3
42.5°	4499.7	2991.1	870.9	716.2	680.5	661.5	647.2	649.6	656.7	663.9	659.1
45°	4985.1	3157.6	832.8	692.4	659.1	633.0	623.4	621.1	628.2	640.1	649.6
47.5°	5620.4	3417.0	818.6	671.0	644.8	609.2	597.3	604.4	613.9	630.6	623.4
50°	6660.3	4000.0	830.5	652.0	623.4	597.3	583.0	575.8	583.0	594.9	599.6
52.5°	8019.0	5058.9	875.7	642.5	609.2	587.7	563.9	552.0	559.2	568.7	568.7
55°	9644.2	6505.6	1001.8	630.6	585.4	573.5	547.3	523.5	528.3	528.3	525.9
57.5°	11076.7	7597.8	1151.7	613.9	571.1	554.4	521.1	492.6	487.8	490.2	492.6
60°	11719.1	7888.1	1223.1	609.2	571.1	530.6	485.4	456.9	449.7	445.0	445.0
62.5°	11607.3	7386.0	1077.9	587.7	585.4	511.6	452.1	421.2	411.7	402.1	404.5
65°	10931.5	6669.8	849.5	559.2	587.7	499.7	418.8	387.9	371.2	359.3	356.9
67.5°	9696.5	5694.2	673.4	537.8	563.9	478.3	390.2	354.5	340.3	328.4	323.6
70°	7585.9	4464.0	585.4	509.2	506.8	425.9	356.9	326.0	304.6	290.3	290.3
72.5°	4918.5	2822.1	502.1	452.1	437.8	356.9	309.3	290.3	273.6	261.7	261.7
75°	2227.2	1311.1	404.5	378.3	356.9	285.5	261.7	252.2	238.0	226.1	226.1
77.5°	799.5	559.2	302.2	297.4	266.5	221.3	211.8	204.6	195.1	183.2	183.2
80°	447.3	354.5	226.1	216.5	185.6	164.2	152.3	152.3	147.5	140.4	138.0
82.5°	283.2	230.8	166.6	145.2	121.4	109.5	104.7	102.3	99.9	90.4	88.0
85°	178.5	157.0	109.5	85.7	71.4	54.7	52.3	50.0	45.2	40.5	40.5
87.5°	80.9	90.4	42.8	26.2	19.0	11.9	7.1	2.4	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)