

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: P324813

Luminaire Tested: **GAN-SA9C-740-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51765 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

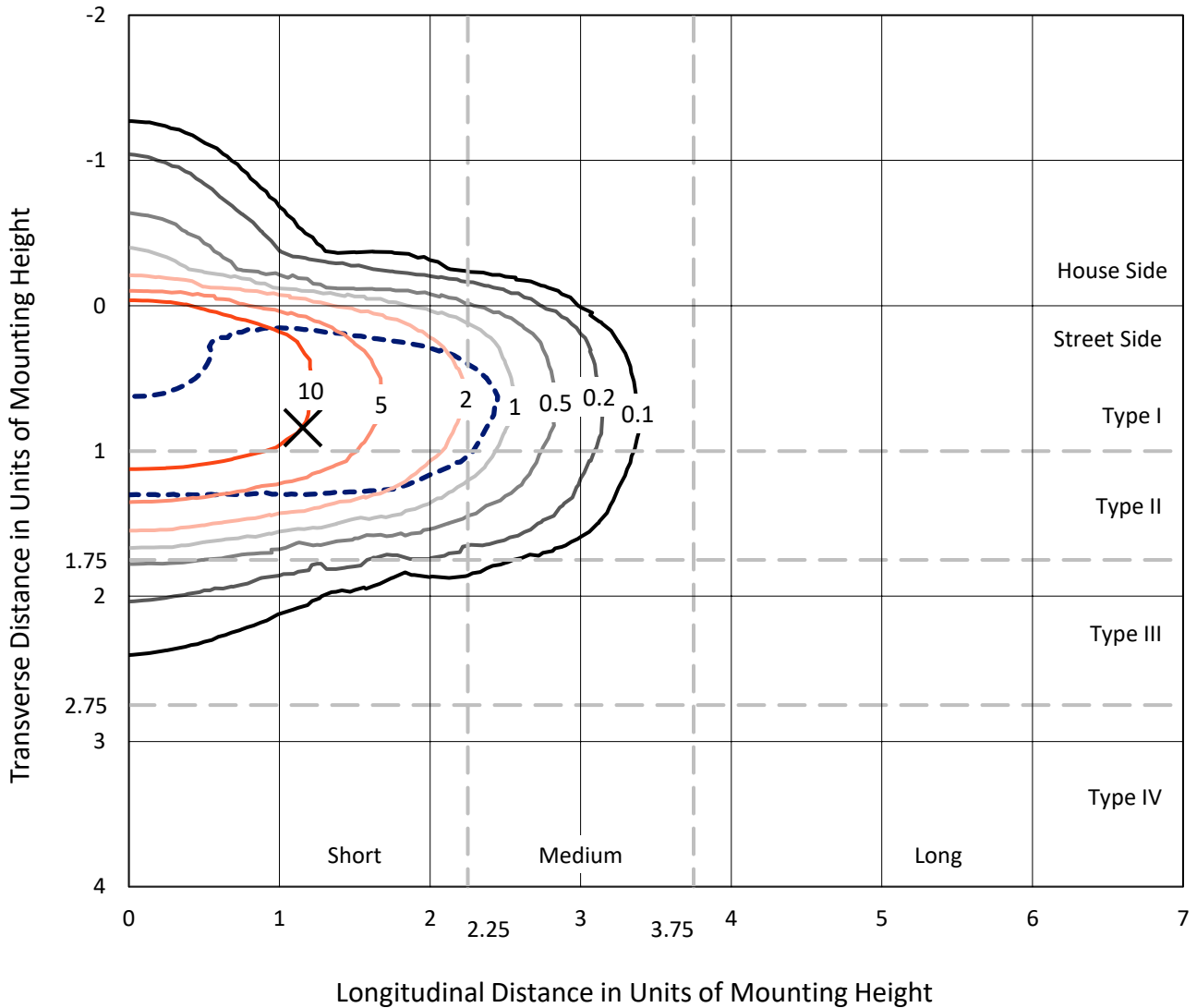
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

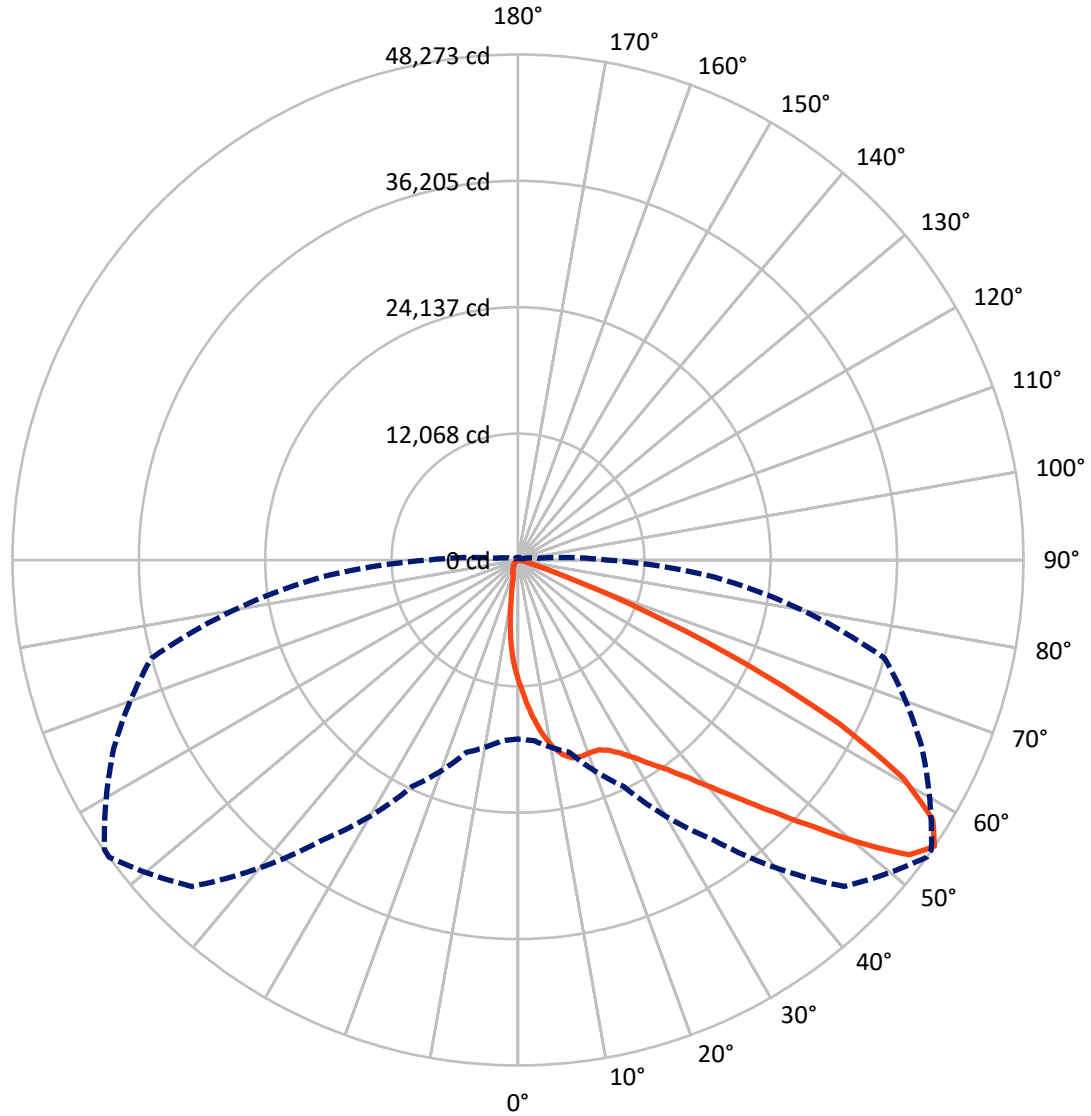
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 19.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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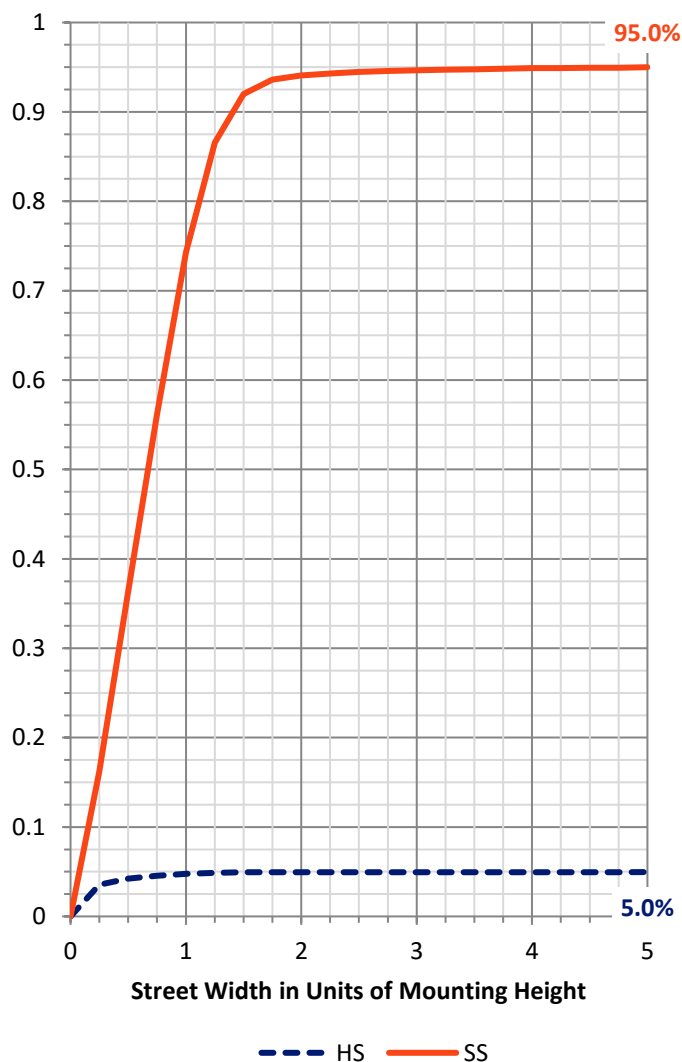
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2582.7	0.0	2582.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	49182.3	0.0	49182.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	51765.0	0.0	51765.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1067.6	2.1
10°-20°	2928.0	5.7
20°-30°	4999.0	9.7
30°-40°	8022.5	15.5
40°-50°	12820.0	24.8
50°-60°	13737.0	26.5
60°-70°	7053.0	13.6
70°-80°	1068.4	2.1
80°-90°	69.6	0.1
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°	51765.0	100.0
0°-180°	51765.0	100.0

Coefficient of Utilization



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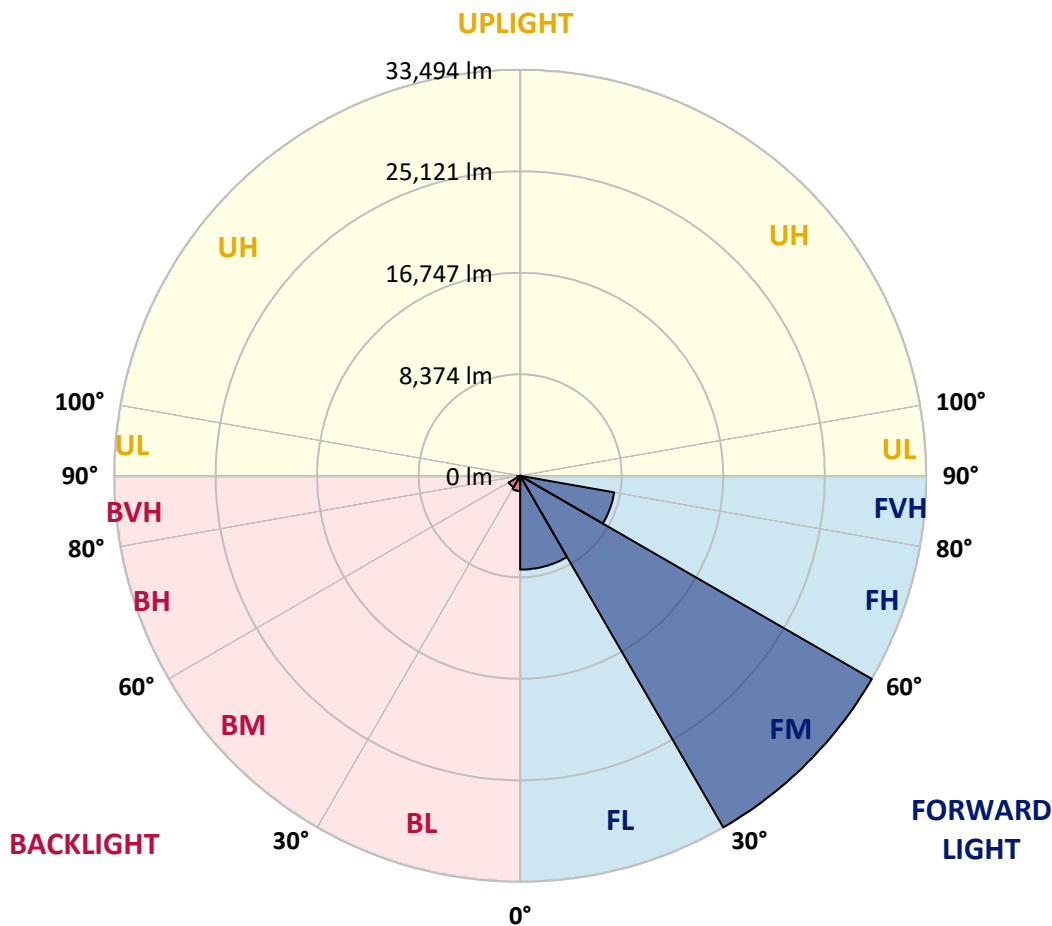
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7738.0	14.9			
FM	(30°-60°)	33494.2	64.7			
FH	(60°-80°)	7883.3	15.2			G4/12000
FVH	(80°-90°)	66.8	0.1			G1/100
BL	(0°-30°)	1256.6	2.4	B3/2500		
BM	(30°-60°)	1085.3	2.1	B2/2500		
BH	(60°-80°)	238.0	0.5	B1/500		G1/500
BVH	(80°-90°)	2.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11593.3	11593.3	11593.3	11593.3	11593.3	11593.3	11593.3	11593.3	11593.3	11593.3	11593.3
2.5°	14548.6	14331.8	14338.5	14240.1	13880.2	13598.5	13305.7	13236.4	12780.3	12301.9	11841.4
5°	17063.5	16904.8	16866.8	16676.8	16176.0	15646.2	15078.4	14946.5	14054.6	13075.4	12111.9
7.5°	18355.7	18357.9	18326.6	18257.3	17944.3	17430.2	16737.2	16598.6	15384.7	13916.0	12393.6
10°	17980.1	18065.0	18239.4	18469.7	18708.9	18644.0	18123.2	17998.0	16679.0	14805.7	12706.6
12.5°	17103.8	17115.0	17309.4	17687.2	18375.8	19082.2	19091.1	19048.7	17915.3	15735.7	13050.8
15°	16667.9	16710.3	16781.9	17025.5	17678.3	18809.5	19618.7	19679.1	19048.7	16723.7	13417.4
17.5°	16954.0	17014.4	16954.0	16983.1	17360.9	18378.0	19710.4	19864.6	20039.0	17700.7	13763.9
20°	17729.7	17785.6	17678.3	17559.8	17633.6	18252.8	19645.5	19853.4	20814.7	18568.0	14054.6
22.5°	18775.9	18798.3	18635.1	18440.6	18387.0	18677.6	19699.2	19913.8	21436.2	19352.7	14237.9
25°	19927.2	19947.3	19743.9	19520.4	19392.9	19511.4	20139.6	20300.5	21983.9	20101.6	14342.9
27.5°	21181.3	21199.2	20944.4	20669.4	20521.9	20526.3	20866.1	21038.3	22567.3	20955.5	14427.9
30°	22507.0	22498.0	22263.3	21881.0	21693.3	21688.8	21912.3	22086.7	23412.3	22050.9	14544.1
32.5°	23995.8	23977.9	23644.8	23170.9	22958.5	22989.8	23188.8	23289.4	24460.8	23217.9	14752.0
35°	25956.3	25904.9	25401.9	24814.0	24422.8	24411.6	24579.3	24659.8	25797.6	24630.7	15098.5
37.5°	28500.3	28453.4	27771.6	26917.6	26367.7	26162.0	26361.0	26463.8	27704.5	26443.7	15655.2
40°	31008.6	30961.6	30557.0	29774.6	28927.3	28433.3	28589.8	28699.3	30085.3	28643.4	16357.1
42.5°	32738.8	32779.1	32919.9	32984.7	32191.1	31153.9	31225.4	31339.4	32586.8	30995.2	17159.7
45°	33194.9	33282.1	34077.9	35640.5	35937.8	35128.6	34379.7	34442.3	35128.6	33346.9	17962.2
47.5°	31824.5	31985.5	33521.3	36427.4	38944.6	39516.9	38099.6	38016.8	37567.5	35249.3	18532.3
50°	28710.5	28858.0	30847.6	35146.5	39856.7	43706.2	42557.1	42313.5	39706.9	36387.2	18733.5
52.5°	24203.7	24382.6	25998.8	31113.6	38137.6	45575.1	46777.8	46574.3	41276.2	36476.6	18767.0
55°	17092.6	17309.4	19019.6	23846.0	32689.7	44088.5	48273.3	48212.9	42579.5	36239.6	18838.5
57.5°	9605.9	9762.4	11606.7	15286.3	23942.2	38401.4	46710.7	47110.8	43366.4	35828.3	18945.8
60°	4265.3	4307.8	5262.4	7609.6	14016.6	29347.6	42237.5	42912.6	42691.3	35278.4	19126.9
62.5°	2365.2	2329.4	2329.4	3163.2	6091.7	18167.9	34442.3	35557.8	39809.7	34627.8	19135.8
65°	1853.2	1819.7	1723.6	1737.0	2320.4	8063.4	23850.5	25833.4	34337.2	32721.0	18492.0
67.5°	1571.6	1542.5	1446.4	1408.4	1441.9	2660.2	13104.5	15163.4	26054.7	27764.9	16017.3
70°	1327.9	1307.8	1258.6	1211.6	1126.7	1314.5	5014.2	6413.6	16055.3	18469.7	10933.8
72.5°	1068.6	1059.6	1077.5	1037.3	934.4	876.3	1714.6	2076.8	7211.7	8242.3	4504.5
75°	921.0	916.6	925.5	885.3	769.0	610.3	871.8	952.3	2034.3	2016.4	912.1
77.5°	599.1	605.8	766.8	748.9	661.7	406.9	451.6	487.3	617.0	462.7	277.2
80°	382.3	377.8	389.0	621.5	594.6	310.7	225.8	237.0	297.3	228.0	134.1
82.5°	232.5	228.0	254.8	290.6	299.6	216.8	138.6	140.8	185.5	147.5	71.5
85°	20.1	26.8	154.2	143.1	102.8	67.1	67.1	71.5	98.4	87.2	40.2
87.5°	0.0	0.0	26.8	40.2	22.4	24.6	24.6	26.8	38.0	38.0	20.1
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°	11593.3	11593.3	11593.3	11593.3	11593.3	11593.3	11593.3	11593.3	11593.3	11593.3	11593.3
2.5°	11602.2	11369.7	10900.3	10448.7	10066.4	9697.6	9277.3	8861.5	8667.0	8588.8	8508.3
5°	11622.3	11143.9	10176.0	9201.3	8190.9	7281.0	6505.3	5709.5	5311.5	5137.2	5056.7
7.5°	11649.2	10920.4	9355.6	7719.2	6091.7	4857.7	3780.2	3087.2	2787.7	2740.7	2624.5
10°	11653.6	10649.9	8403.2	6082.8	4084.3	2928.5	2253.4	1895.7	1763.8	1741.5	1703.4
12.5°	11662.6	10330.2	7345.8	4504.5	2722.8	1958.3	1629.7	1511.2	1475.4	1473.2	1473.2
15°	11689.4	9994.9	6248.2	3245.9	1956.1	1551.4	1430.7	1383.8	1370.4	1377.1	1374.8
17.5°	11689.4	9599.2	5170.7	2418.8	1580.5	1394.9	1327.9	1296.6	1292.1	1298.8	1301.1
20°	11604.5	9118.6	4182.6	1882.3	1401.7	1294.4	1234.0	1204.9	1193.8	1198.2	1200.5
22.5°	11401.0	8528.4	3377.8	1558.1	1283.2	1202.7	1137.9	1093.2	1075.3	1077.5	1077.5
25°	11083.6	7828.7	2642.4	1348.0	1187.0	1104.3	1028.3	976.9	965.7	963.5	968.0
27.5°	10676.7	7055.2	2103.6	1187.0	1073.0	994.8	918.8	876.3	867.4	869.6	871.8
30°	10276.6	6252.7	1658.7	1050.7	945.6	871.8	813.7	793.6	793.6	800.3	802.5
32.5°	9910.0	5481.4	1312.2	932.2	831.6	764.5	731.0	728.8	739.9	744.4	746.7
35°	9594.7	4768.3	1086.5	840.5	742.2	684.1	672.9	681.8	695.2	704.2	706.4
37.5°	9371.2	4131.2	950.1	764.5	672.9	625.9	623.7	641.6	659.5	679.6	684.1
40°	9277.3	3592.4	856.2	697.5	617.0	581.2	574.5	599.1	632.6	661.7	666.2
42.5°	9199.1	3152.0	775.7	632.6	572.3	520.9	518.6	549.9	590.2	619.2	625.9
45°	9132.0	2798.8	701.9	563.3	514.2	447.1	453.8	494.0	525.3	556.6	563.3
47.5°	8993.4	2508.2	621.5	489.6	424.7	382.3	395.7	431.5	456.0	503.0	509.7
50°	8745.3	2271.3	538.8	400.2	346.5	330.9	351.0	375.6	406.9	447.1	451.6
52.5°	8577.6	2092.4	467.2	335.3	286.1	290.6	310.7	319.7	337.6	353.2	348.7
55°	8481.5	1994.1	409.1	290.6	243.7	257.1	261.6	250.4	241.4	225.8	219.1
57.5°	8470.3	1904.6	364.4	252.6	214.6	221.3	205.7	167.7	136.4	118.5	114.0
60°	8452.4	1795.1	328.6	212.4	190.0	181.1	147.5	91.7	64.8	60.4	60.4
62.5°	8257.9	1625.2	301.8	178.8	161.0	136.4	84.9	42.5	35.8	38.0	38.0
65°	7638.7	1388.2	275.0	145.3	127.4	98.4	42.5	24.6	13.4	15.6	15.6
67.5°	6494.1	1106.6	245.9	111.8	96.1	62.6	24.6	11.2	0.0	0.0	0.0
70°	4348.0	686.3	207.9	78.2	62.6	38.0	17.9	2.2	0.0	0.0	0.0
72.5°	1667.7	371.1	167.7	46.9	40.2	26.8	11.2	0.0	0.0	0.0	0.0
75°	375.6	243.7	116.2	33.5	29.1	17.9	4.5	0.0	0.0	0.0	0.0
77.5°	143.1	176.6	67.1	22.4	20.1	11.2	0.0	0.0	0.0	0.0	0.0
80°	69.3	105.1	31.3	13.4	11.2	4.5	0.0	0.0	0.0	0.0	0.0
82.5°	35.8	40.2	13.4	6.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.1	20.1	6.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.2	6.7	2.2	2.2	0.0	0.0	0.0	0.0	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)