

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: P324734

Luminaire Tested: **GAN-SA0C-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324734
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-SA0C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 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: 47927 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

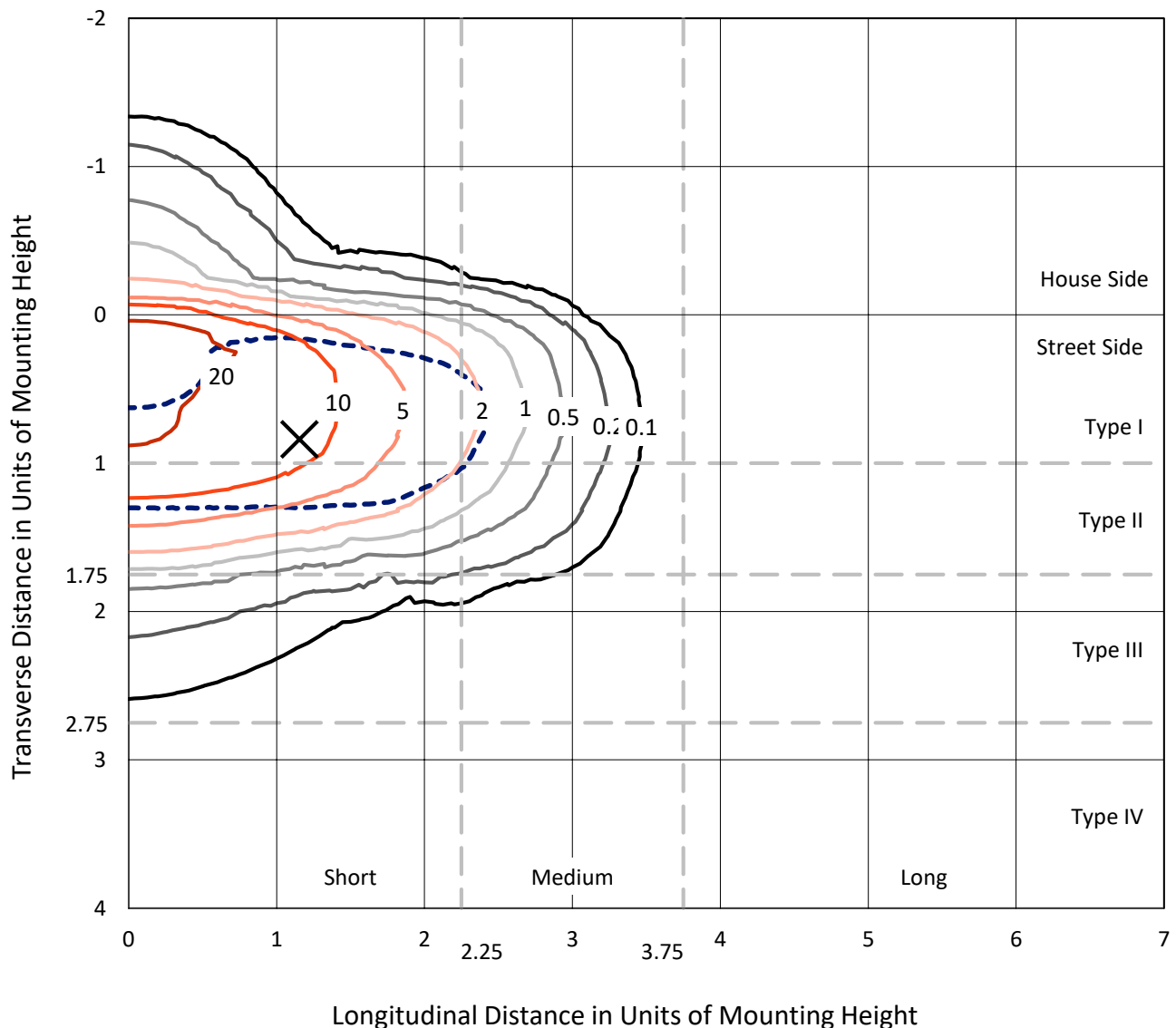
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

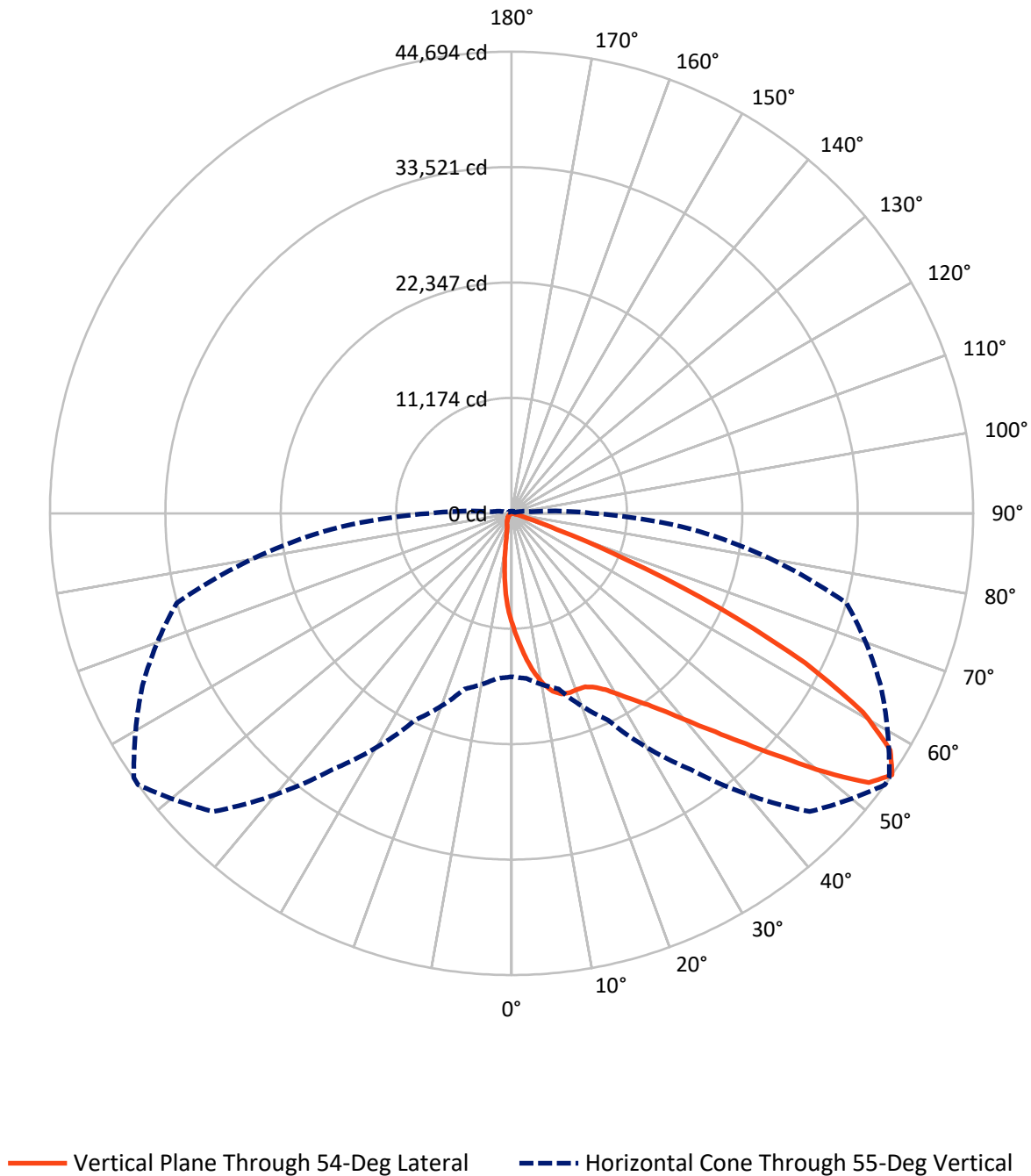
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2391.2	0.0	2391.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	45535.8	0.0	45535.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	47927.0	0.0	47927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	988.4	2.1
10°-20°	2710.9	5.7
20°-30°	4628.3	9.7
30°-40°	7427.7	15.5
40°-50°	11869.5	24.8
50°-60°	12718.5	26.5
60°-70°	6530.1	13.6
70°-80°	989.1	2.1
80°-90°	64.4	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°	47927.0	100.0
0°-180°	47927.0	100.0

Coefficient of Utilization



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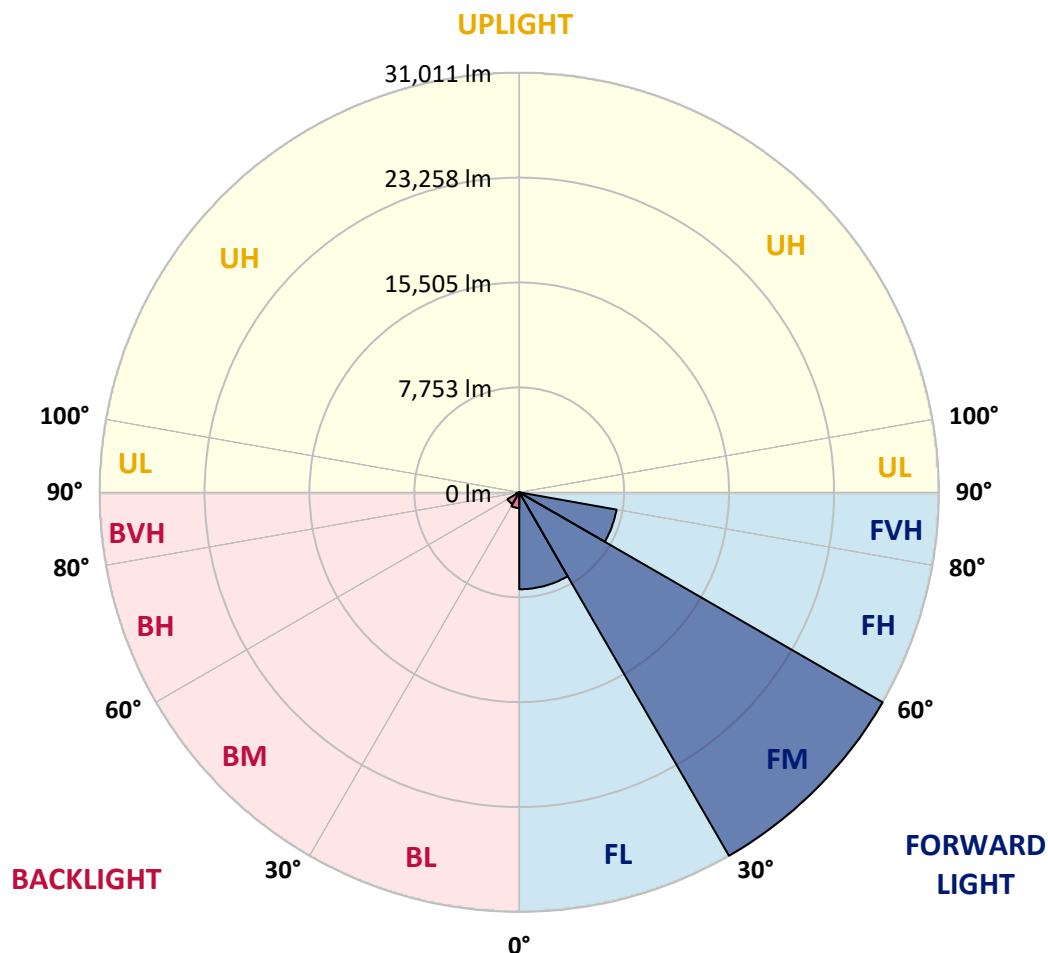
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7164.3	14.9			
FM	(30°-60°)	31010.9	64.7			
FH	(60°-80°)	7298.8	15.2			G3/7500
FVH	(80°-90°)	61.8	0.1			G1/100
BL	(0°-30°)	1163.4	2.4	B3/2500		
BM	(30°-60°)	1004.8	2.1	B2/2500		
BH	(60°-80°)	220.4	0.5	B1/500		G1/500
BVH	(80°-90°)	2.6	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10733.7	10733.7	10733.7	10733.7	10733.7	10733.7	10733.7	10733.7	10733.7	10733.7	10733.7
2.5°	13469.9	13269.2	13275.4	13184.3	12851.1	12590.3	12319.2	12255.0	11832.8	11389.8	10963.5
5°	15798.4	15651.5	15616.3	15440.3	14976.7	14486.2	13960.5	13838.3	13012.5	12106.0	11213.9
7.5°	16994.7	16996.8	16967.8	16903.6	16613.9	16137.8	15496.2	15367.9	14244.0	12884.2	11474.7
10°	16647.0	16725.7	16887.1	17100.3	17321.7	17261.7	16779.5	16663.6	15442.4	13708.0	11764.5
12.5°	15835.7	15846.0	16026.1	16375.9	17013.3	17667.4	17675.7	17636.3	16587.0	14569.0	12083.2
15°	15432.1	15471.4	15537.6	15763.2	16367.6	17414.9	18164.1	18220.0	17636.3	15483.8	12422.6
17.5°	15697.0	15752.9	15697.0	15723.9	16073.7	17015.4	18249.0	18391.8	18553.2	16388.3	12743.5
20°	16415.2	16466.9	16367.6	16257.9	16326.2	16899.5	18189.0	18381.5	19271.4	17191.3	13012.5
22.5°	17383.8	17404.5	17253.4	17073.4	17023.7	17292.8	18238.6	18437.3	19846.8	17917.8	13182.2
25°	18449.8	18468.4	18280.0	18073.1	17955.1	18064.8	18646.4	18795.4	20353.9	18611.2	13279.5
27.5°	19610.9	19627.4	19391.5	19136.9	19000.3	19004.4	19319.0	19478.4	20894.1	19401.8	13358.2
30°	20838.2	20830.0	20612.6	20258.7	20084.9	20080.7	20287.7	20449.1	21676.5	20416.0	13465.8
32.5°	22216.7	22200.1	21891.7	21453.0	21256.3	21285.3	21469.5	21562.7	22647.2	21496.4	13658.3
35°	24031.9	23984.3	23518.6	22974.2	22612.0	22601.7	22756.9	22831.4	23884.9	22804.5	13979.1
37.5°	26387.2	26343.8	25712.5	24921.9	24412.7	24222.3	24406.5	24501.7	25650.4	24483.1	14494.5
40°	28709.5	28666.0	28291.4	27567.0	26782.6	26325.2	26470.0	26571.5	27854.7	26519.7	15144.4
42.5°	30311.5	30348.7	30479.1	30539.2	29804.4	28844.0	28910.3	29015.8	30170.7	28697.1	15887.4
45°	30733.7	30814.4	31551.3	32998.0	33273.3	32524.1	31830.7	31888.6	32524.1	30874.5	16630.4
47.5°	29465.0	29614.0	31035.9	33726.6	36057.1	36587.0	35274.8	35198.2	34782.2	32635.8	17158.2
50°	26581.8	26718.4	28560.5	32540.6	36901.6	40465.7	39401.8	39176.2	36762.9	33689.3	17344.5
52.5°	22409.2	22574.8	24071.2	28806.8	35309.9	42196.0	43309.5	43121.2	38215.9	33772.1	17375.6
55°	15825.3	16026.1	17609.4	22078.0	30266.0	40819.6	44694.2	44638.3	39422.5	33552.7	17441.8
57.5°	8893.7	9038.6	10746.1	14153.0	22167.0	35554.2	43247.4	43617.9	40151.1	33171.9	17541.1
60°	3949.1	3988.4	4872.2	7045.4	12977.3	27171.7	39105.9	39730.9	39526.0	32662.7	17708.8
62.5°	2189.8	2156.7	2156.7	2928.7	5640.1	16820.9	31888.6	32921.4	36858.1	32060.4	17717.1
65°	1715.8	1684.8	1595.8	1608.2	2148.4	7465.6	22082.2	23918.0	31791.4	30294.9	17121.0
67.5°	1455.0	1428.1	1339.1	1303.9	1335.0	2463.0	12132.9	14039.1	24122.9	25706.3	14829.8
70°	1229.4	1210.8	1165.3	1121.8	1043.2	1217.0	4642.4	5938.1	14864.9	17100.3	10123.1
72.5°	989.3	981.1	997.6	960.4	865.2	811.3	1587.5	1922.8	6677.0	7631.2	4170.5
75°	852.7	848.6	856.9	819.6	712.0	565.0	807.2	881.7	1883.5	1866.9	844.5
77.5°	554.7	560.9	709.9	693.4	612.6	376.7	418.1	451.2	571.3	428.4	256.6
80°	353.9	349.8	360.1	575.4	550.6	287.7	209.0	219.4	275.3	211.1	124.2
82.5°	215.3	211.1	236.0	269.1	277.3	200.8	128.3	130.4	171.8	136.6	66.2
85°	18.6	24.8	142.8	132.5	95.2	62.1	62.1	66.2	91.1	80.7	37.3
87.5°	0.0	0.0	24.8	37.3	20.7	22.8	22.8	24.8	35.2	35.2	18.6
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°	10733.7	10733.7	10733.7	10733.7	10733.7	10733.7	10733.7	10733.7	10733.7	10733.7	10733.7
2.5°	10742.0	10526.7	10092.1	9674.0	9320.1	8978.6	8589.5	8204.5	8024.4	7952.0	7877.5
5°	10760.6	10317.7	9421.5	8519.1	7583.6	6741.2	6023.0	5286.1	4917.7	4756.3	4681.8
7.5°	10785.5	10110.7	8661.9	7146.8	5640.1	4497.6	3499.9	2858.3	2581.0	2537.5	2429.9
10°	10789.6	9860.3	7780.2	5631.8	3781.4	2711.4	2086.3	1755.1	1633.0	1612.3	1577.1
12.5°	10797.9	9564.3	6801.2	4170.5	2521.0	1813.1	1508.8	1399.2	1366.0	1364.0	1364.0
15°	10822.7	9253.9	5785.0	3005.3	1811.0	1436.4	1324.6	1281.2	1268.8	1275.0	1272.9
17.5°	10822.7	8887.5	4787.3	2239.5	1463.3	1291.5	1229.4	1200.5	1196.3	1202.5	1204.6
20°	10744.1	8442.5	3872.5	1742.7	1297.7	1198.4	1142.5	1115.6	1105.2	1109.4	1111.5
22.5°	10555.7	7896.1	3127.4	1442.6	1188.0	1113.5	1053.5	1012.1	995.5	997.6	997.6
25°	10261.8	7248.3	2446.4	1248.1	1099.0	1022.5	952.1	904.5	894.1	892.1	896.2
27.5°	9885.1	6532.1	1947.6	1099.0	993.5	921.0	850.7	811.3	803.1	805.1	807.2
30°	9514.6	5789.1	1535.8	972.8	875.5	807.2	753.4	734.8	734.8	741.0	743.0
32.5°	9175.2	5075.0	1214.9	863.1	769.9	707.9	676.8	674.7	685.1	689.2	691.3
35°	8883.4	4414.8	1005.9	778.2	687.2	633.3	623.0	631.3	643.7	652.0	654.0
37.5°	8676.4	3824.9	879.6	707.9	623.0	579.5	577.5	594.0	610.6	629.2	633.3
40°	8589.5	3326.1	792.7	645.8	571.3	538.1	531.9	554.7	585.7	612.6	616.8
42.5°	8517.0	2918.3	718.2	585.7	529.9	482.3	480.2	509.2	546.4	573.3	579.5
45°	8454.9	2591.3	649.9	521.6	476.0	414.0	420.2	457.4	486.4	515.4	521.6
47.5°	8326.6	2322.3	575.4	453.3	393.3	353.9	366.3	399.5	422.2	465.7	471.9
50°	8096.9	2102.9	498.8	370.5	320.8	306.3	325.0	347.7	376.7	414.0	418.1
52.5°	7941.6	1937.3	432.6	310.5	264.9	269.1	287.7	296.0	312.5	327.0	322.9
55°	7852.6	1846.2	378.8	269.1	225.6	238.0	242.2	231.8	223.5	209.0	202.8
57.5°	7842.3	1763.4	337.4	233.9	198.7	204.9	190.4	155.2	126.3	109.7	105.6
60°	7825.7	1662.0	304.3	196.6	175.9	167.6	136.6	84.9	60.0	55.9	55.9
62.5°	7645.7	1504.7	279.4	165.6	149.0	126.3	78.7	39.3	33.1	35.2	35.2
65°	7072.3	1285.3	254.6	134.5	118.0	91.1	39.3	22.8	12.4	14.5	14.5
67.5°	6012.6	1024.5	227.7	103.5	89.0	58.0	22.8	10.3	0.0	0.0	0.0
70°	4025.7	635.4	192.5	72.4	58.0	35.2	16.6	2.1	0.0	0.0	0.0
72.5°	1544.0	343.6	155.2	43.5	37.3	24.8	10.3	0.0	0.0	0.0	0.0
75°	347.7	225.6	107.6	31.0	26.9	16.6	4.1	0.0	0.0	0.0	0.0
77.5°	132.5	163.5	62.1	20.7	18.6	10.3	0.0	0.0	0.0	0.0	0.0
80°	64.2	97.3	29.0	12.4	10.3	4.1	0.0	0.0	0.0	0.0	0.0
82.5°	33.1	37.3	12.4	6.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.6	18.6	6.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.3	6.2	2.1	2.1	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)