

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: P323131

Luminaire Tested: **GAN-SA7C-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34654 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

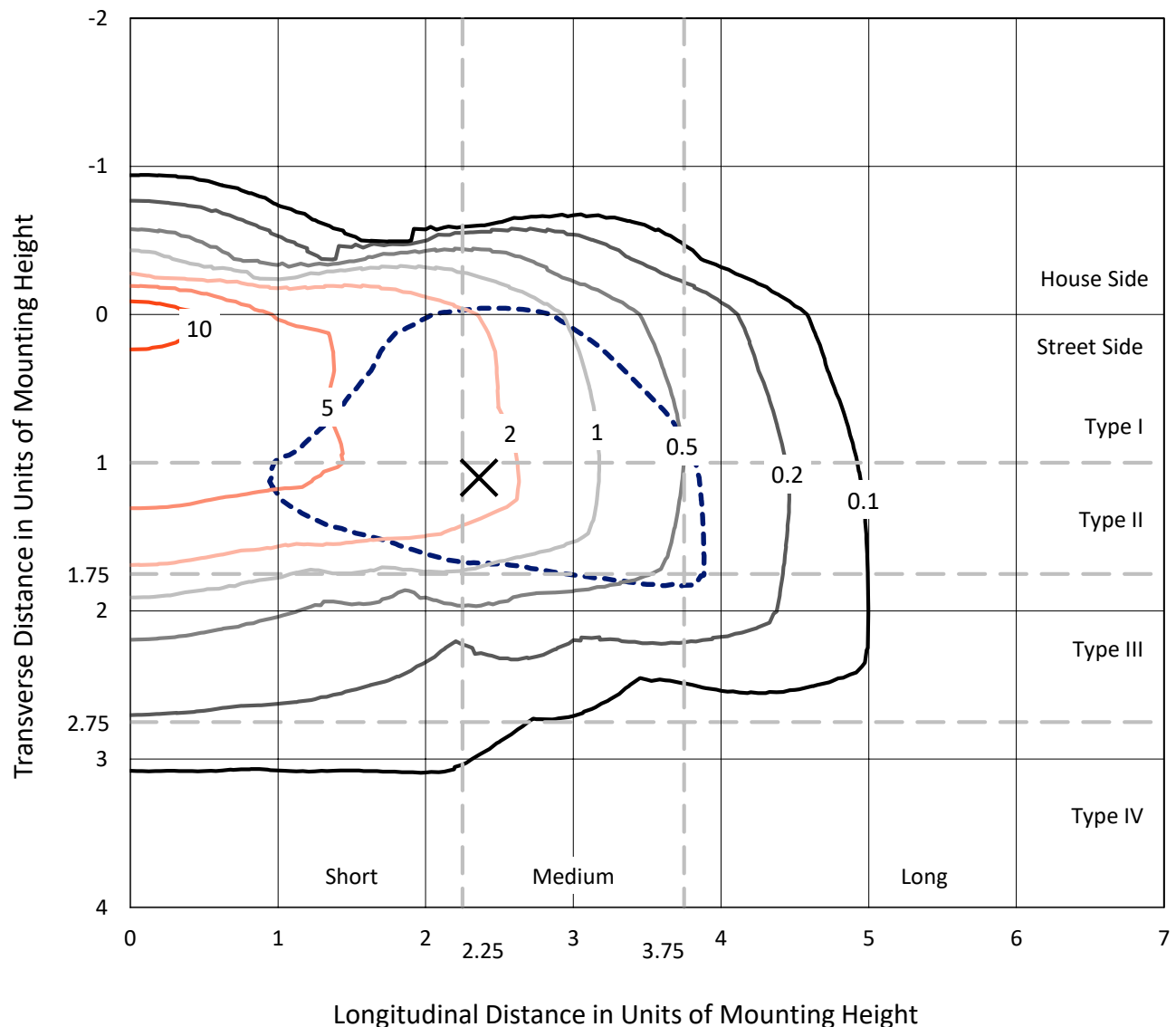
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

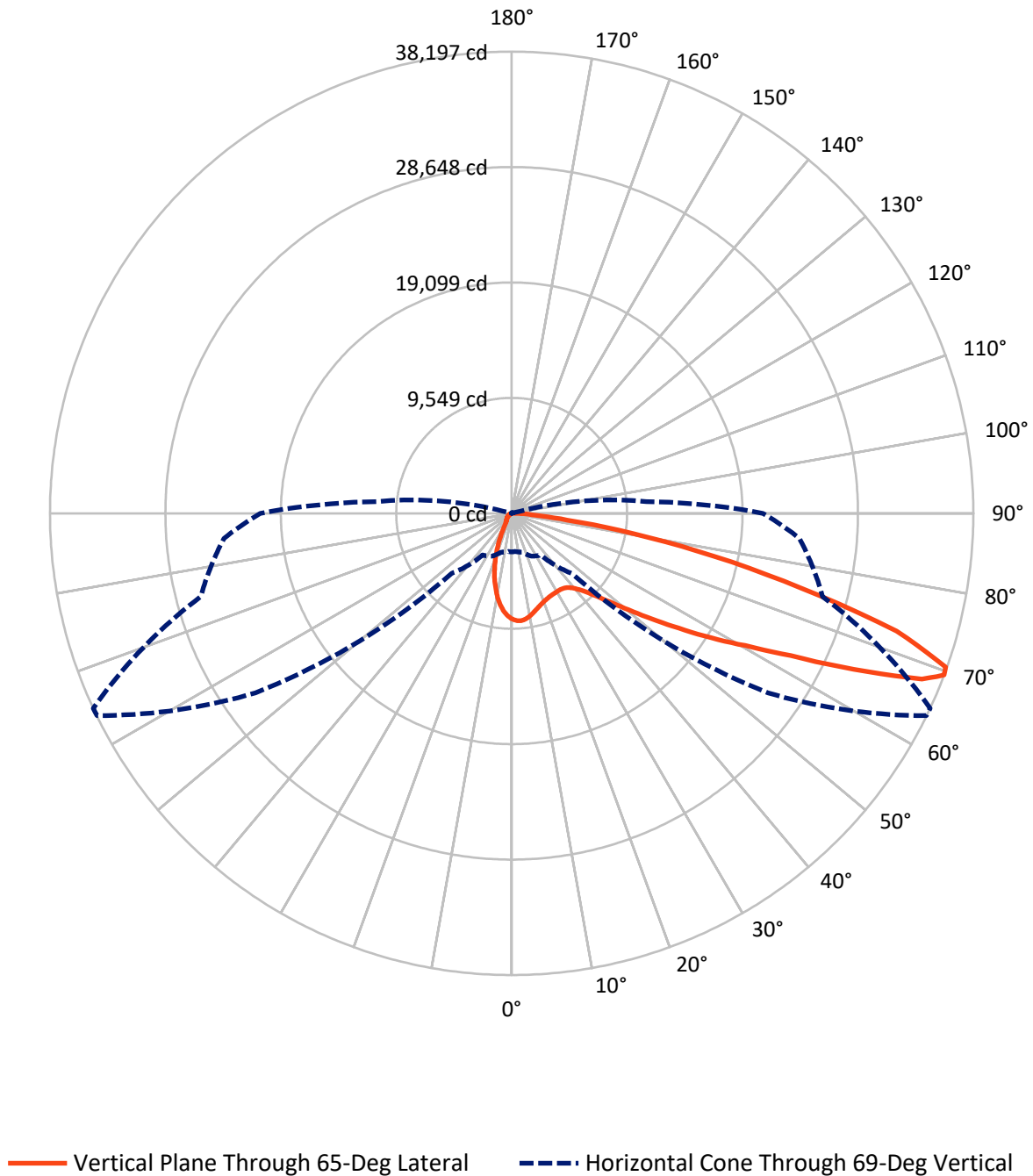
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4084.9	0.0	4084.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	30569.1	0.0	30569.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	34654.0	0.0	34654.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.3	2.1
10°-20°	1603.0	4.6
20°-30°	2220.2	6.4
30°-40°	3095.7	8.9
40°-50°	4811.7	13.9
50°-60°	7724.6	22.3
60°-70°	8737.8	25.2
70°-80°	5131.8	14.8
80°-90°	597.0	1.7
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°	34654.0	100.0
0°-180°	34654.0	100.0

Coefficient of Utilization



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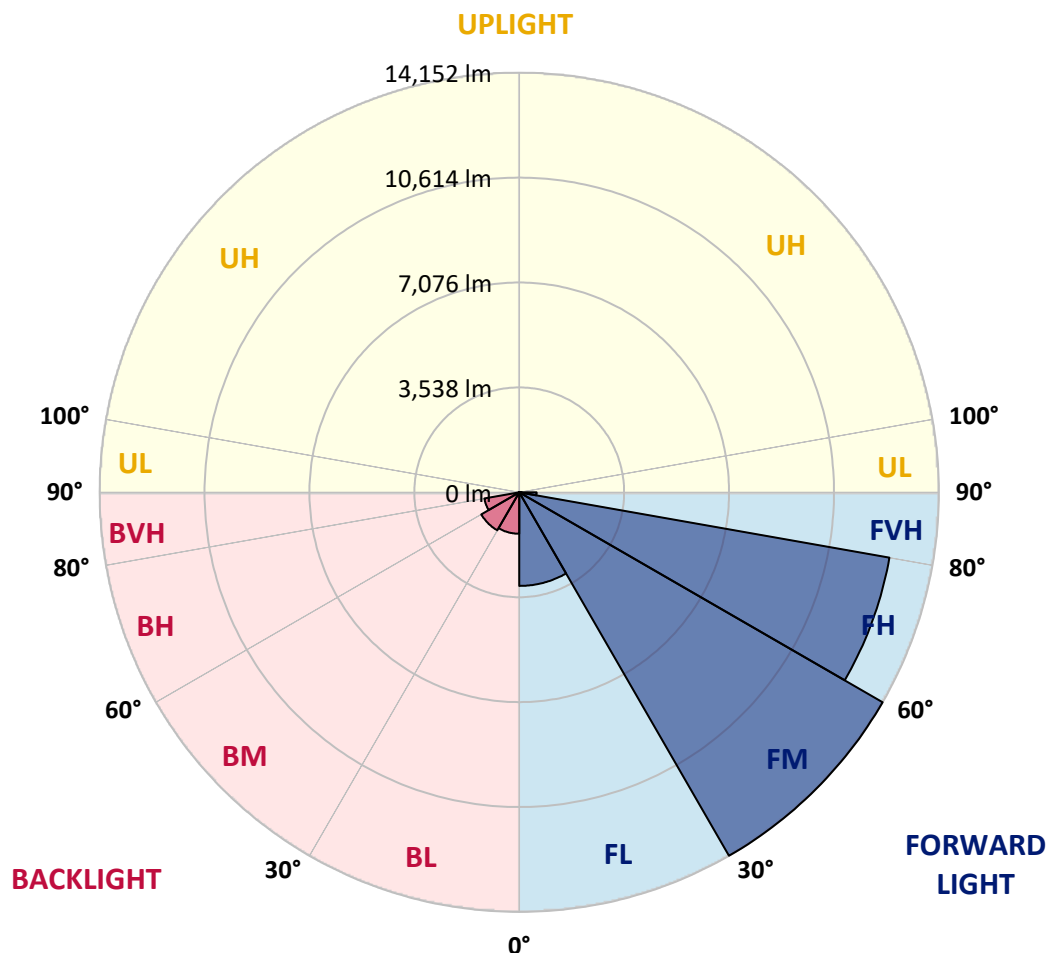
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3157.8	9.1			
FM	(30°-60°)	14151.7	40.8			
FH	(60°-80°)	12676.1	36.6			G5
FVH	(80°-90°)	583.5	1.7			G4/750
BL	(0°-30°)	1397.7	4.0	B3/2500		
BM	(30°-60°)	1480.3	4.3	B2/2500		
BH	(60°-80°)	1193.5	3.4	B3/2500		G3/2500
BVH	(80°-90°)	13.4	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8757.1	8757.1	8757.1	8757.1	8757.1	8757.1	8757.1	8757.1	8757.1	8757.1	8757.1
2.5°	8834.8	8812.8	8830.4	8868.6	8887.6	8887.6	8902.3	8884.7	8890.6	8848.0	8786.5
5°	8282.0	8248.3	8296.7	8403.7	8535.7	8648.6	8815.8	8903.8	8912.6	8914.0	8842.2
7.5°	7686.7	7655.9	7727.7	7853.8	8023.9	8233.6	8525.4	8780.6	8795.3	8933.1	8880.3
10°	7202.8	7180.8	7264.4	7399.3	7598.7	7833.3	8191.1	8546.0	8588.5	8893.5	8874.4
12.5°	6818.6	6801.0	6880.2	7035.6	7239.4	7499.0	7872.9	8285.0	8342.1	8804.1	8845.1
15°	6538.5	6535.6	6601.6	6751.1	6977.0	7218.9	7601.6	8043.0	8109.0	8707.3	8840.7
17.5°	6391.9	6396.3	6444.7	6572.2	6765.8	7006.3	7372.9	7839.2	7911.0	8620.8	8862.7
20°	6377.2	6381.6	6408.0	6479.9	6636.8	6849.4	7186.7	7667.6	7742.4	8556.2	8897.9
22.5°	6506.3	6503.3	6510.7	6503.3	6591.3	6752.6	7063.5	7535.6	7622.2	8513.7	8925.8
25°	6754.1	6749.7	6746.7	6692.5	6633.8	6720.3	7012.2	7460.9	7543.0	8482.9	8941.9
27.5°	7098.7	7095.7	7091.3	7001.9	6825.9	6771.7	7018.0	7433.0	7501.9	8458.0	8939.0
30°	7551.8	7572.3	7566.4	7441.8	7167.6	6928.6	7079.6	7418.3	7478.5	8409.6	8908.2
32.5°	8084.1	8125.1	8157.4	8023.9	7680.8	7239.4	7221.8	7434.5	7478.5	8372.9	8852.4
35°	8636.9	8689.7	8808.4	8761.5	8309.9	7707.2	7466.7	7531.2	7567.9	8393.5	8826.0
37.5°	9180.9	9244.0	9502.0	9638.4	9134.0	8326.0	7848.0	7770.3	7789.3	8518.1	8855.4
40°	9812.9	9908.2	10299.7	10519.7	10117.9	9154.5	8418.4	8180.8	8188.2	8792.3	8991.7
42.5°	10642.9	10741.1	11164.9	11509.5	11226.5	10201.5	9192.6	8808.4	8801.1	9305.5	9312.9
45°	11654.7	11757.3	12195.8	12578.5	12450.9	11442.0	10183.9	9724.9	9716.1	10115.0	9921.4
47.5°	12801.4	12902.5	13294.1	13688.5	13826.3	12890.8	11446.4	10975.7	10955.2	11239.7	10861.4
50°	13785.3	13851.3	14212.0	14742.8	15364.6	14671.0	13016.9	12563.8	12541.8	12733.9	12241.2
52.5°	14143.1	14181.2	14547.8	15291.2	16842.7	17081.7	15080.1	14496.5	14480.3	14563.9	14078.6
55°	13418.7	13487.6	13937.8	15040.5	17643.3	19806.2	17684.4	16889.6	16767.9	16587.5	15999.5
57.5°	11445.0	11554.9	12038.8	13505.2	17269.4	21967.6	21511.6	19596.5	19417.6	18314.9	17561.2
60°	8575.3	8710.2	9112.0	10694.2	15273.6	22737.4	25693.6	22612.8	22209.6	19690.3	18996.7
62.5°	5884.5	5952.0	6224.7	7255.6	11248.5	21476.4	29192.4	26652.6	25916.5	21186.0	20549.6
65°	4494.4	4517.9	4629.3	4984.2	6698.4	17445.3	30584.0	31982.9	31092.8	22975.0	22161.2
67.5°	3621.9	3602.9	3756.8	4264.2	4485.6	10642.9	28960.7	37025.7	36609.2	25366.6	23783.0
69°	3193.7	3167.3	3324.2	3913.7	4212.9	7035.6	25890.1	38170.9	38197.3	26629.2	23894.4
70°	2874.1	2891.7	3047.1	3705.5	4120.5	5522.3	22957.4	37879.1	38087.3	27101.3	23225.7
72.5°	1919.5	1966.4	2278.7	3076.4	3962.1	4179.1	13861.5	32504.9	33305.5	26038.2	19926.4
75°	1082.2	1117.4	1488.4	2319.8	3733.4	3979.7	7321.6	23947.2	24721.4	21774.0	15366.0
77.5°	530.8	549.9	841.7	1497.2	3121.9	3792.0	4152.7	16266.4	17150.6	14212.0	8691.1
80°	224.4	234.6	420.8	923.8	2231.8	3619.0	3083.8	10010.9	10120.8	5567.8	2315.4
82.5°	86.5	89.4	177.4	576.3	1418.0	2821.3	2579.3	4746.6	4632.2	1048.5	527.9
85°	10.3	11.7	64.5	346.1	788.9	1451.7	2095.4	2045.6	1893.1	208.2	271.3
87.5°	0.0	0.0	4.4	105.6	234.6	680.4	1089.5	849.0	765.4	67.5	140.8
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°	8757.1	8757.1	8757.1	8757.1	8757.1	8757.1	8757.1	8757.1	8757.1	8757.1	8757.1
2.5°	8735.1	8720.5	8641.3	8526.9	8418.4	8283.5	8154.5	8076.7	8015.1	7974.1	8022.5
5°	8758.6	8694.1	8453.6	8145.7	7843.6	7503.4	7186.7	6918.3	6812.7	6695.4	6748.2
7.5°	8751.3	8629.6	8197.0	7648.6	7094.3	6520.9	5978.4	5560.5	5343.4	5130.8	5185.1
10°	8714.6	8509.3	7853.8	7041.5	6211.5	5387.4	4617.6	4032.5	3705.5	3409.3	3451.8
12.5°	8634.0	8348.0	7449.1	6346.4	5236.4	4149.8	3248.0	2498.7	2096.9	1919.5	1941.5
15°	8585.6	8191.1	7021.0	5642.6	4195.3	2890.2	1985.5	1476.6	1293.3	1234.7	1242.0
17.5°	8562.1	8040.1	6578.1	4837.5	3130.7	1840.3	1283.1	1132.0	1092.4	1082.2	1085.1
20°	8538.6	7887.6	6122.1	4041.3	2157.0	1237.6	1054.3	1010.3	995.7	982.5	985.4
22.5°	8499.0	7740.9	5632.3	3234.8	1454.6	1004.5	950.2	907.7	876.9	860.8	863.7
25°	8450.7	7587.0	5132.3	2409.2	1061.6	895.9	844.6	784.5	747.8	718.5	720.0
27.5°	8372.9	7397.8	4616.1	1753.8	891.5	802.1	733.2	667.2	605.6	571.9	571.9
30°	8264.4	7183.7	4042.8	1255.2	799.2	709.7	626.1	544.0	478.0	447.2	444.3
32.5°	8144.2	6960.8	3463.6	951.7	725.9	623.2	527.9	441.4	382.7	357.8	356.3
35°	8041.5	6720.3	2885.8	797.7	652.5	539.6	435.5	362.2	315.3	294.7	293.3
37.5°	7975.6	6479.9	2322.7	712.7	586.5	461.9	365.1	299.1	265.4	249.3	247.8
40°	7965.3	6301.0	1808.0	648.1	525.0	393.0	305.0	253.7	222.9	205.3	203.8
42.5°	8098.7	6198.3	1387.2	593.9	461.9	332.9	259.5	217.0	184.8	167.2	165.7
45°	8449.2	6230.6	1067.5	545.5	398.9	281.5	220.0	180.4	151.0	137.8	134.9
47.5°	9088.5	6453.5	849.0	497.1	338.7	239.0	187.7	149.6	124.6	111.4	110.0
50°	10226.4	6977.0	709.7	444.3	283.0	203.8	155.4	121.7	101.2	89.4	88.0
52.5°	11736.8	7909.6	633.5	393.0	234.6	173.0	127.6	96.8	79.2	70.4	68.9
55°	13402.6	9038.7	583.6	337.3	192.1	143.7	101.2	76.3	61.6	54.3	51.3
57.5°	15028.8	10016.7	536.7	283.0	159.8	117.3	80.7	60.1	48.4	41.1	39.6
60°	16523.0	10915.6	482.4	227.3	130.5	92.4	63.1	46.9	38.1	30.8	30.8
62.5°	18122.8	11610.7	407.6	177.4	107.0	70.4	51.3	42.5	30.8	26.4	24.9
65°	19817.9	12126.8	319.7	137.8	83.6	52.8	42.5	44.0	24.9	19.1	17.6
67.5°	21070.2	12024.2	236.1	108.5	64.5	41.1	41.1	46.9	22.0	14.7	13.2
69°	20794.5	11189.8	198.0	93.8	55.7	35.2	38.1	46.9	20.5	13.2	11.7
70°	19995.3	10266.0	174.5	83.6	49.9	32.3	36.7	45.5	19.1	13.2	11.7
72.5°	16652.0	7732.1	136.4	63.1	39.6	26.4	30.8	39.6	19.1	13.2	10.3
75°	12525.7	4949.0	104.1	45.5	29.3	20.5	23.5	29.3	19.1	11.7	10.3
77.5°	6815.7	1784.6	74.8	30.8	20.5	16.1	16.1	22.0	17.6	8.8	5.9
80°	1752.3	448.7	46.9	20.5	16.1	11.7	10.3	14.7	10.3	1.5	0.0
82.5°	432.6	101.2	24.9	14.7	11.7	4.4	4.4	7.3	4.4	0.0	0.0
85°	237.6	49.9	16.1	10.3	5.9	0.0	0.0	1.5	0.0	0.0	0.0
87.5°	121.7	14.7	4.4	2.9	1.5	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)