

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: P321842

Luminaire Tested: **GAN-SA8B-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27246 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 334
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

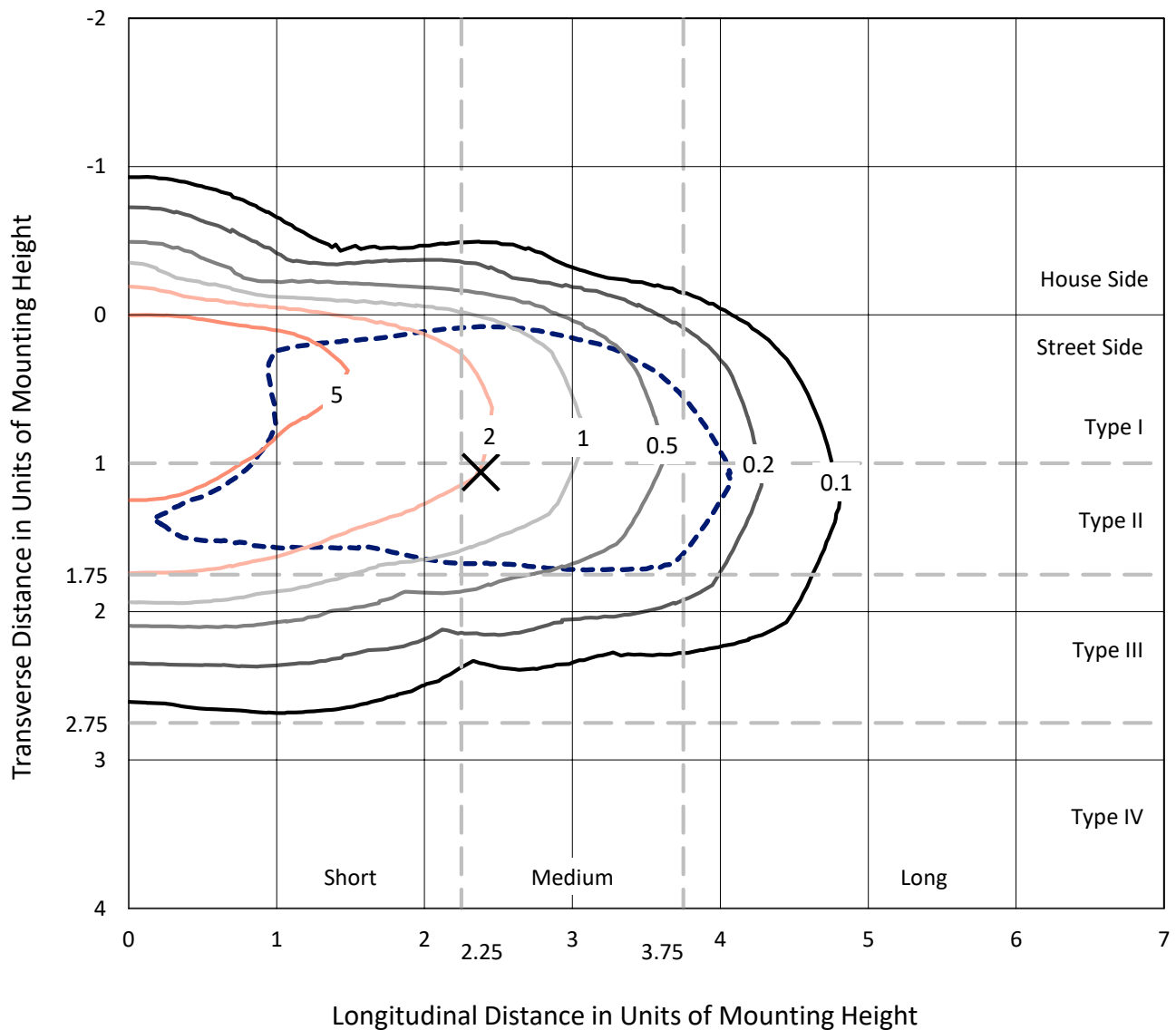


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Iso-Footcandle Lines of Horizontal Illumination

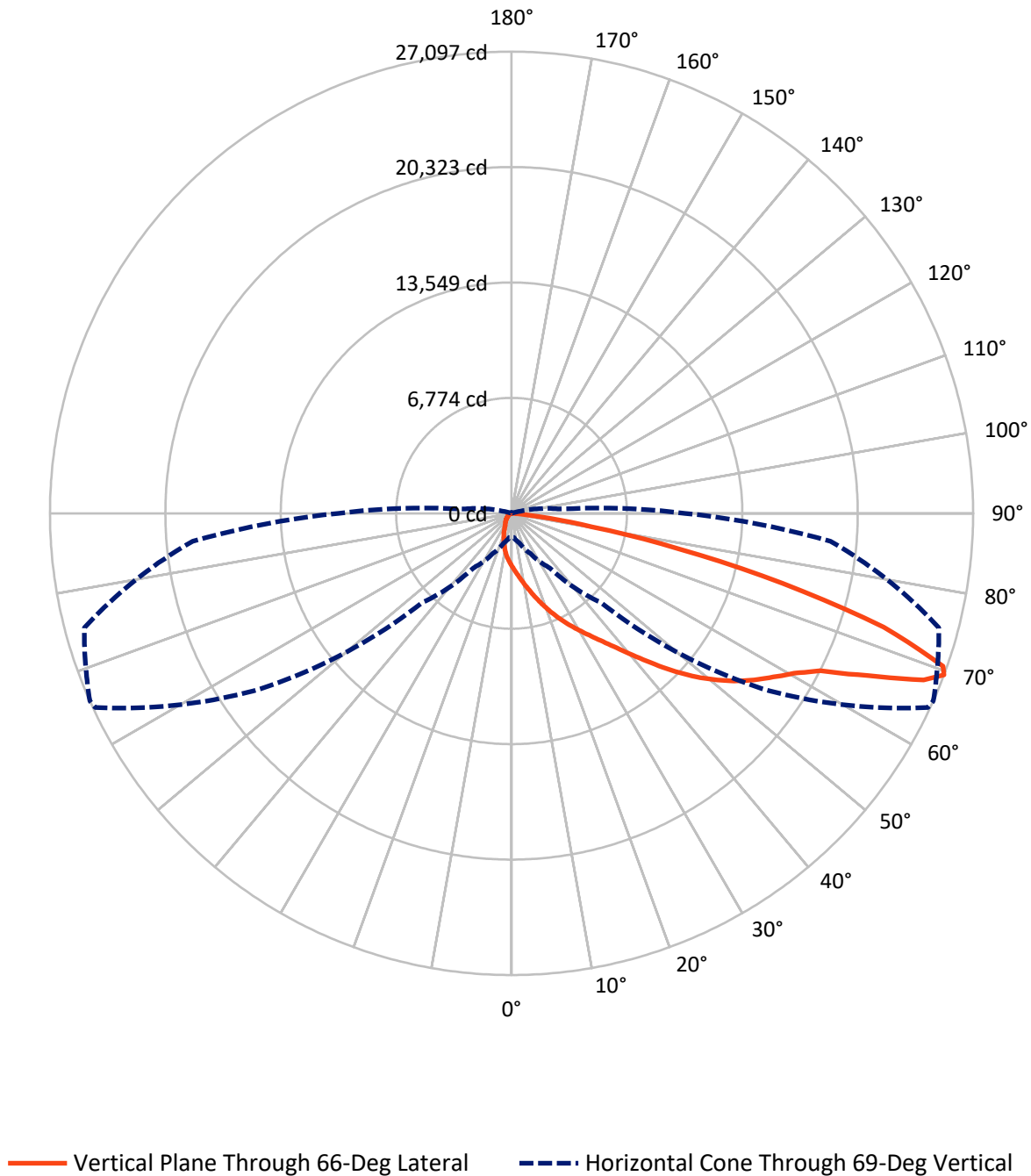
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1634.4	0.0	1634.4
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	25611.6	0.0	25611.6
	% Fixture	94.0	0.0	94.0
Total	Lumens	27246.0	0.0	27246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.7	1.1
10°-20°	892.0	3.3
20°-30°	1553.3	5.7
30°-40°	2725.3	10.0
40°-50°	4561.8	16.7
50°-60°	6705.4	24.6
60°-70°	6884.8	25.3
70°-80°	3398.8	12.5
80°-90°	224.7	0.8
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°	27246.0	100.0
0°-180°	27246.0	100.0

Coefficient of Utilization



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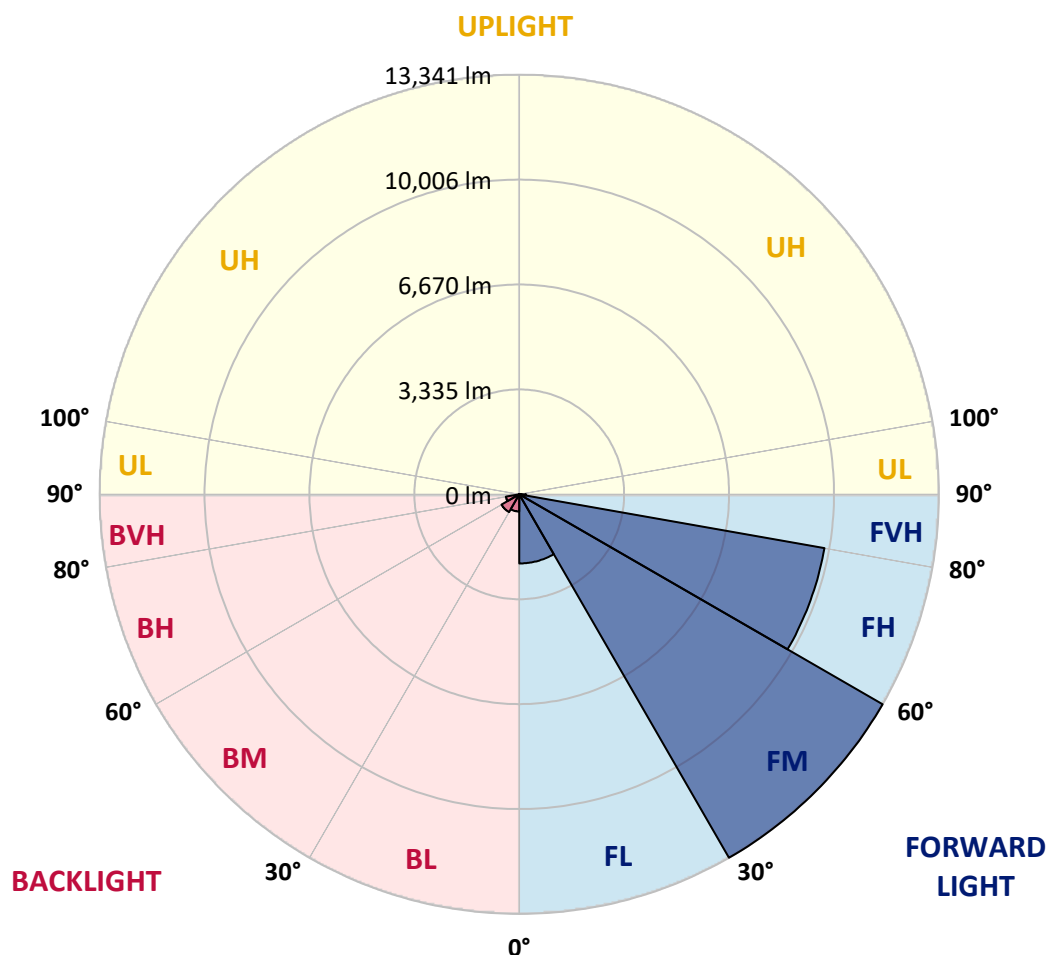
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2198.5	8.1			
FM	(30°-60°)	13340.9	49.0			
FH	(60°-80°)	9852.9	36.2			G4/12000
FVH	(80°-90°)	219.3	0.8			G2/225
BL	(0°-30°)	546.6	2.0	B2/1000		
BM	(30°-60°)	651.6	2.4	B1/1000		
BH	(60°-80°)	430.7	1.6	B1/500		G1/500
BVH	(80°-90°)	5.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7
2.5°	3649.4	3633.9	3627.4	3598.9	3549.7	3512.2	3439.7	3355.6	3340.1	3258.6	3158.9
5°	4123.0	4110.1	4101.0	4060.9	4010.4	3916.0	3784.0	3627.4	3597.6	3442.3	3243.0
7.5°	4453.0	4476.3	4476.3	4450.4	4387.0	4315.8	4154.1	3940.6	3903.0	3664.9	3355.6
10°	4645.8	4674.3	4696.3	4718.3	4709.3	4680.8	4528.1	4287.4	4242.1	3926.3	3486.3
12.5°	4664.0	4692.4	4754.6	4846.4	4935.7	5000.4	4904.7	4671.7	4620.0	4229.1	3641.6
15°	4563.0	4592.8	4688.6	4867.1	5083.3	5272.2	5303.3	5097.5	5044.4	4590.2	3835.7
17.5°	4387.0	4406.4	4543.6	4790.8	5129.8	5476.7	5664.3	5554.3	5505.1	5003.0	4051.9
20°	4256.3	4270.6	4390.9	4656.2	5101.4	5604.8	6006.0	6039.6	5987.8	5445.6	4286.1
22.5°	4480.2	4506.1	4510.0	4635.5	5023.7	5668.2	6306.2	6517.1	6478.3	5915.4	4516.4
25°	5092.3	5122.1	5023.7	4946.1	5089.7	5696.7	6563.7	7006.3	6975.2	6421.4	4748.1
27.5°	5901.1	5932.2	5805.4	5573.7	5435.3	5804.1	6792.8	7503.2	7501.9	6957.1	4997.8
30°	6695.7	6726.8	6597.4	6365.7	6047.4	6108.2	6990.8	8023.5	8031.2	7509.7	5263.1
32.5°	7529.1	7567.9	7434.6	7137.0	6804.4	6633.6	7269.0	8546.3	8590.3	8150.3	5562.1
35°	8476.4	8481.6	8293.9	7982.1	7599.0	7336.3	7715.5	9132.5	9237.3	8943.6	5941.2
37.5°	9405.6	9443.1	9289.1	8797.3	8445.3	8147.7	8379.3	9865.0	10013.8	9912.9	6436.9
40°	10094.0	10173.0	10151.0	9620.4	9286.5	9074.3	9203.7	10735.9	10924.9	11041.3	7061.9
42.5°	10526.3	10585.8	10686.7	10367.1	10064.3	10099.2	10176.9	11750.5	11983.4	12327.7	7780.2
45°	11021.9	11050.4	11134.5	10993.4	10789.0	11141.0	11209.6	12893.2	13137.8	13711.1	8577.3
47.5°	11627.6	11694.9	11718.1	11588.7	11495.6	12062.4	12204.7	13932.4	14275.3	15192.8	9421.1
50°	12398.8	12417.0	12457.1	12373.0	12279.8	12854.4	13097.7	15023.3	15335.2	16679.8	10253.2
52.5°	13153.3	13218.0	13357.8	13304.7	13267.2	13528.6	13893.5	16006.8	16354.9	17919.5	11084.0
55°	13370.7	13426.4	13909.1	14239.1	14544.5	14359.4	14654.5	16888.1	17264.7	19027.3	11883.8
57.5°	12502.4	12615.0	13451.0	14310.2	15577.2	15650.9	15700.1	17792.7	18130.5	19876.2	12715.9
60°	10307.6	10329.6	11701.3	13175.3	15406.4	16778.1	17227.2	18764.6	19048.0	20666.9	13712.4
62.5°	6556.0	6779.8	8284.9	10365.8	13599.8	16615.0	19073.9	20234.7	20338.2	21615.5	15141.1
65°	3122.7	3267.6	4352.1	6404.5	9850.7	14527.7	20348.6	22894.1	22940.6	23495.8	17049.9
67.5°	1728.9	1798.8	2315.2	3447.5	5758.8	10273.9	19833.5	26043.9	26087.9	25416.3	18724.4
69°	1352.3	1411.9	1818.2	2598.6	3904.3	7384.2	17948.0	26966.6	27097.3	25966.3	18784.0
70°	1147.9	1206.1	1565.9	2194.8	3139.5	5705.7	15975.8	26737.6	26876.0	25914.5	18340.1
72.5°	702.7	736.3	1043.1	1545.2	2104.2	2870.3	9852.0	22611.9	22846.2	23771.5	15762.2
75°	473.6	491.8	652.2	1066.3	1505.0	1477.9	5118.2	15938.2	16445.5	18491.5	11641.8
77.5°	339.1	355.9	437.4	689.8	1054.7	975.8	2317.7	9905.1	10013.8	11090.5	6348.9
80°	192.8	208.4	309.3	410.2	715.6	650.9	921.4	4731.3	4785.6	4755.8	2119.7
82.5°	100.9	113.9	169.5	270.5	459.4	425.8	383.1	1584.0	1591.8	1323.9	464.6
85°	19.4	23.3	84.1	185.1	236.8	185.1	156.6	371.4	379.2	335.2	115.2
87.5°	0.0	1.3	33.6	41.4	46.6	47.9	50.5	72.5	77.6	104.8	31.1
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°	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7	3100.7
2.5°	3114.9	3068.3	2979.0	2875.5	2795.3	2716.3	2654.2	2589.5	2566.2	2554.6	2553.3
5°	3146.0	3047.6	2858.7	2664.6	2505.4	2355.3	2247.9	2145.6	2097.7	2075.7	2066.7
7.5°	3197.7	3039.9	2735.7	2439.4	2210.3	2022.7	1873.9	1762.6	1706.9	1683.6	1674.6
10°	3258.6	3029.5	2592.1	2201.3	1908.8	1714.7	1567.2	1457.2	1396.3	1370.5	1357.5
12.5°	3329.7	3011.4	2426.5	1960.6	1651.3	1457.2	1278.6	1142.7	1072.8	1043.1	1028.8
15°	3417.7	2993.3	2253.0	1734.1	1424.8	1188.0	992.6	900.7	886.5	881.3	882.6
17.5°	3504.4	2964.8	2064.1	1510.2	1186.7	927.9	828.2	823.1	825.6	825.6	825.6
20°	3582.1	2900.1	1858.3	1318.7	960.2	782.9	762.2	753.2	746.7	741.5	735.1
22.5°	3642.9	2813.4	1660.3	1128.5	784.2	716.9	684.6	656.1	632.8	617.3	609.5
25°	3684.3	2698.2	1479.2	946.0	705.3	652.2	594.0	546.1	509.9	487.9	478.8
27.5°	3715.4	2574.0	1317.4	792.0	650.9	577.2	500.8	443.9	406.3	386.9	379.2
30°	3737.4	2432.9	1175.0	696.2	590.1	498.2	416.7	361.1	333.9	323.5	318.4
32.5°	3758.1	2276.3	1040.5	650.9	533.2	425.8	349.4	306.7	289.9	276.9	273.1
35°	3809.9	2131.4	912.3	603.1	474.9	363.6	300.2	269.2	252.4	244.6	242.0
37.5°	3932.8	2024.0	789.4	553.9	416.7	314.5	262.7	240.7	225.2	217.4	214.8
40°	4130.8	1969.6	685.9	500.8	359.8	276.9	238.1	217.4	200.6	188.9	186.4
42.5°	4422.0	1977.4	613.4	447.8	314.5	247.2	214.8	190.2	172.1	161.8	159.2
45°	4775.3	2034.3	562.9	396.0	276.9	223.9	188.9	163.1	146.2	137.2	134.6
47.5°	5158.3	2126.2	521.5	349.4	247.2	201.9	163.1	135.9	121.6	113.9	112.6
50°	5562.1	2215.5	478.8	304.1	221.3	179.9	137.2	112.6	100.9	94.5	91.9
52.5°	5971.0	2319.0	440.0	262.7	199.3	154.0	113.9	91.9	82.8	77.6	75.1
55°	6411.0	2396.7	402.5	230.4	177.3	130.7	94.5	76.4	68.6	62.1	60.8
57.5°	6928.7	2517.0	363.6	199.3	151.4	108.7	77.6	60.8	54.4	47.9	46.6
60°	7627.5	2658.1	322.2	176.0	124.2	89.3	63.4	49.2	41.4	36.2	34.9
62.5°	8548.9	2814.7	270.5	154.0	100.9	72.5	50.5	38.8	29.8	23.3	23.3
65°	9717.5	3069.6	221.3	129.4	82.8	59.5	38.8	28.5	16.8	10.4	10.4
67.5°	10399.5	3113.6	178.6	106.1	67.3	50.5	32.4	19.4	5.2	1.3	0.0
69°	10180.7	2858.7	151.4	90.6	58.2	47.9	29.8	14.2	2.6	0.0	0.0
70°	9769.2	2614.1	133.3	80.2	53.1	45.3	28.5	10.4	2.6	0.0	0.0
72.5°	8072.6	1860.9	100.9	59.5	38.8	40.1	25.9	6.5	2.6	0.0	0.0
75°	5880.4	1131.1	72.5	41.4	24.6	29.8	18.1	2.6	1.3	0.0	0.0
77.5°	3271.5	533.2	45.3	23.3	15.5	18.1	9.1	0.0	0.0	0.0	0.0
80°	1062.5	144.9	20.7	12.9	9.1	10.4	3.9	0.0	0.0	0.0	0.0
82.5°	196.7	41.4	11.6	6.5	2.6	2.6	0.0	0.0	0.0	0.0	0.0
85°	42.7	16.8	6.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.2	5.2	1.3	0.0	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)