

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: P319489

Luminaire Tested: **GAN-SA5C-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25458 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 279
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



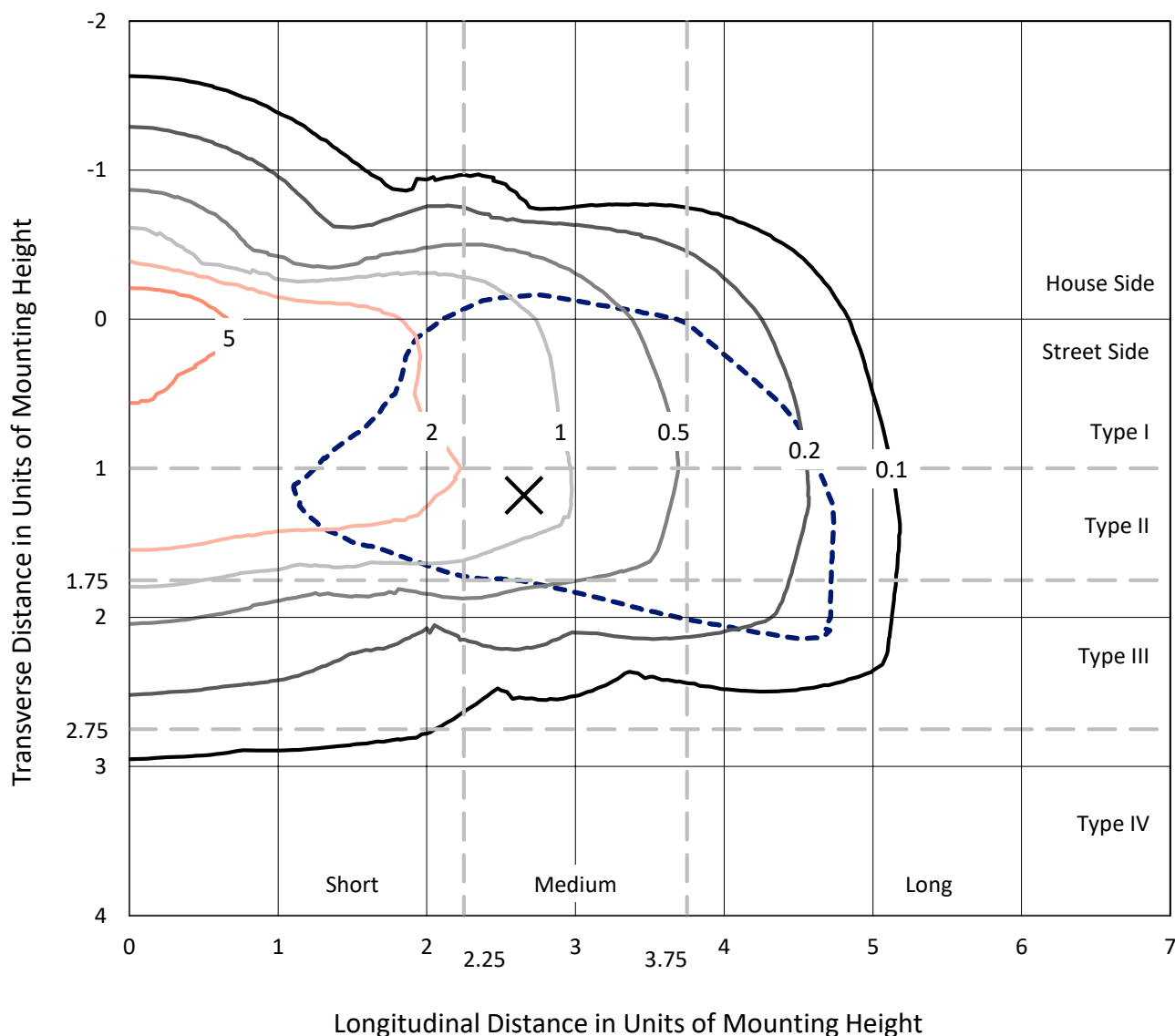
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

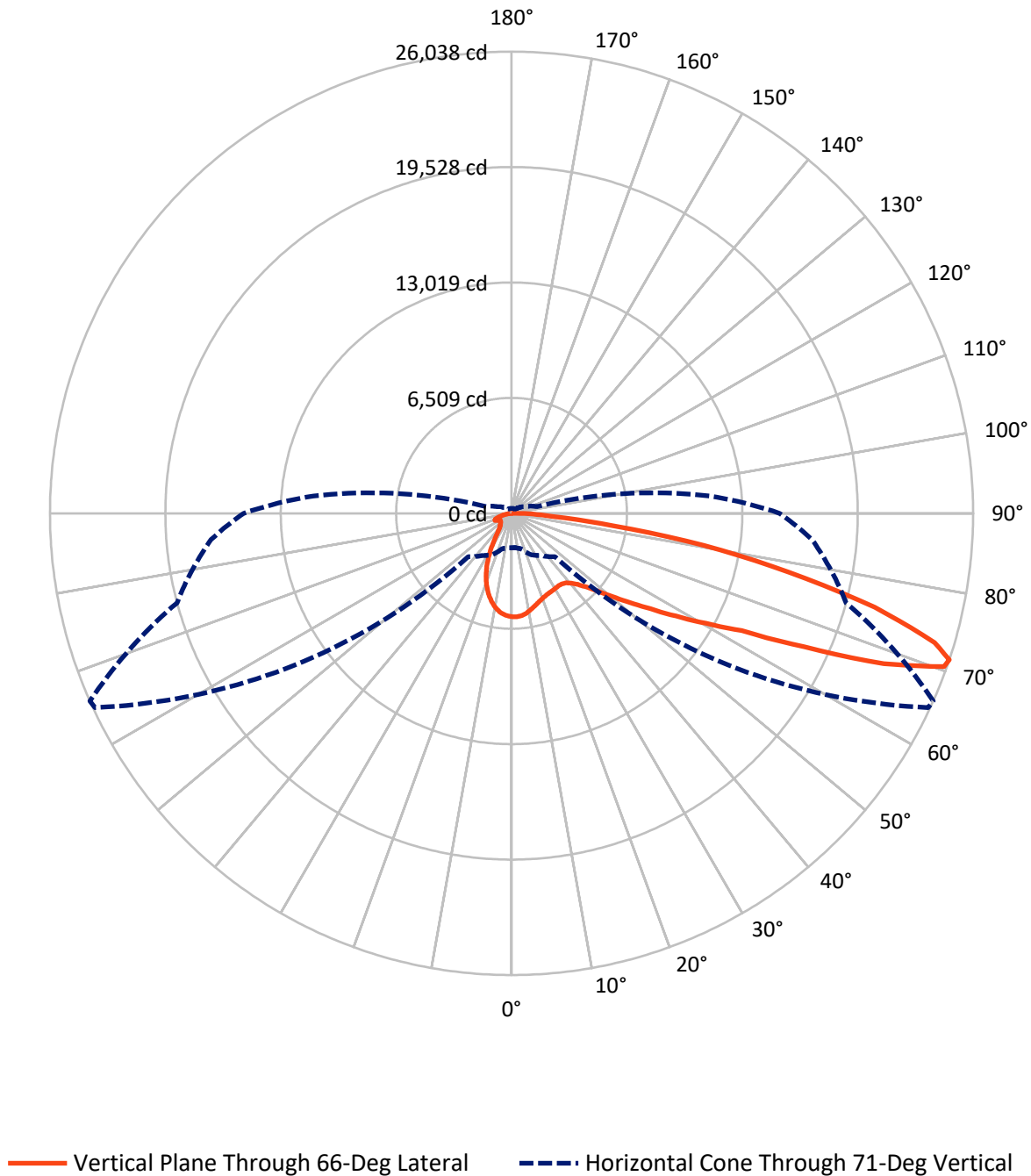
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	4718.1	0.0	4718.1
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	20739.9	0.0	20739.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	25458.0	0.0	25458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.3	2.0
10°-20°	1231.2	4.8
20°-30°	1653.9	6.5
30°-40°	2175.6	8.5
40°-50°	3165.0	12.4
50°-60°	4944.0	19.4
60°-70°	6193.2	24.3
70°-80°	4724.0	18.6
80°-90°	857.8	3.4
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°	25458.0	100.0
0°-180°	25458.0	100.0

Coefficient of Utilization



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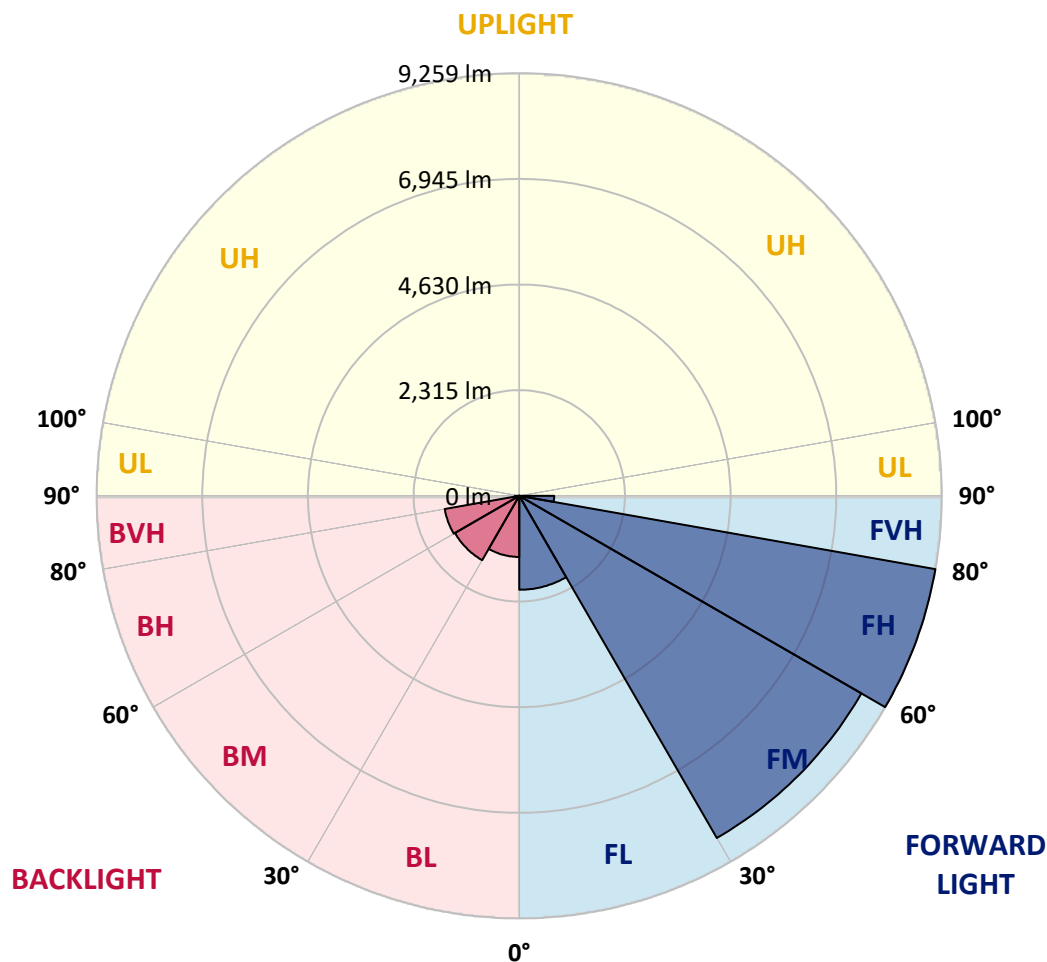
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2058.6	8.1			
FM	(30°-60°)	8657.0	34.0			
FH	(60°-80°)	9259.3	36.4			G4/12000
FVH	(80°-90°)	765.0	3.0			G5
BL	(0°-30°)	1339.8	5.3	B3/2500		
BM	(30°-60°)	1627.6	6.4	B2/2500		
BH	(60°-80°)	1657.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	92.9	0.4			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°	65°	66°	75°	85°
0°	5831.9	5831.9	5831.9	5831.9	5831.9	5831.9	5831.9	5831.9	5831.9	5831.9	5831.9
2.5°	5723.8	5715.0	5741.4	5768.6	5779.2	5796.8	5823.1	5838.1	5837.2	5839.8	5831.1
5°	5344.1	5332.7	5385.4	5428.5	5511.1	5604.3	5717.7	5798.5	5800.3	5846.0	5858.3
7.5°	4984.6	4976.7	5037.4	5106.8	5202.6	5345.0	5528.7	5702.7	5713.3	5837.2	5880.3
10°	4696.3	4694.6	4753.4	4829.0	4940.7	5099.8	5310.7	5565.6	5581.4	5795.0	5883.8
12.5°	4471.3	4474.8	4525.8	4611.9	4729.7	4895.8	5124.4	5411.8	5437.3	5728.2	5863.6
15°	4305.2	4319.2	4360.5	4447.6	4563.6	4732.3	4967.0	5269.4	5308.1	5653.5	5852.2
17.5°	4210.2	4226.1	4255.1	4327.1	4436.1	4598.7	4821.1	5152.5	5187.7	5596.4	5853.0
20°	4182.1	4195.3	4212.0	4256.0	4348.2	4495.9	4706.0	5047.0	5084.8	5550.7	5861.8
22.5°	4237.5	4247.2	4248.9	4245.4	4301.7	4422.1	4622.5	4969.7	5010.1	5520.8	5868.0
25°	4356.2	4369.3	4359.7	4327.1	4308.7	4382.5	4579.4	4918.7	4959.1	5498.8	5855.7
27.5°	4534.6	4536.3	4528.4	4486.2	4399.2	4386.9	4566.2	4888.8	4927.5	5473.3	5830.2
30°	4777.2	4788.6	4774.5	4717.4	4575.0	4457.2	4582.0	4859.8	4895.0	5440.8	5788.9
32.5°	5061.1	5089.2	5088.3	5028.6	4824.6	4614.6	4647.1	4842.2	4869.5	5406.5	5738.8
35°	5355.5	5394.2	5466.3	5440.8	5188.5	4863.3	4771.9	4870.3	4888.8	5402.1	5703.6
37.5°	5661.4	5700.1	5848.6	5917.2	5621.9	5219.3	4968.8	4969.7	4978.5	5455.7	5701.0
40°	5981.4	6022.7	6245.9	6424.4	6183.5	5670.2	5286.1	5177.1	5167.4	5587.6	5752.8
42.5°	6429.6	6466.5	6734.6	6962.3	6806.7	6247.7	5724.7	5497.0	5476.8	5846.0	5919.0
45°	6996.6	7028.2	7313.0	7556.5	7476.5	6906.9	6275.8	5937.4	5933.9	6276.7	6255.6
47.5°	7670.7	7695.3	7951.1	8186.7	8215.7	7665.5	6968.4	6616.9	6559.7	6867.4	6776.8
50°	8373.0	8400.3	8574.3	8827.4	9042.8	8680.7	7859.7	7449.2	7372.8	7647.0	7515.2
52.5°	8838.0	8874.0	9025.2	9346.0	9972.7	9793.4	8913.6	8458.3	8342.3	8591.9	8490.8
55°	8630.6	8711.4	8942.6	9456.8	10716.3	11493.4	10213.6	9635.2	9504.3	9711.7	9651.9
57.5°	7687.4	7798.2	8113.7	8907.4	10820.9	12991.1	12178.9	11021.3	10929.1	10869.3	10896.5
60°	5963.8	6070.1	6461.3	7495.8	10092.3	14084.5	15136.7	12730.1	12596.5	12031.3	12055.9
62.5°	4220.8	4167.2	4435.3	5192.0	8200.7	14212.9	18502.2	15015.4	14575.9	13258.3	13150.2
65°	3218.8	3206.5	3326.9	3567.7	4967.0	12677.3	20507.1	18856.4	18170.0	14701.6	14446.7
67.5°	2644.8	2622.8	2741.5	3092.2	3198.6	8178.8	20551.1	23312.8	22638.6	16498.2	15946.2
70°	2174.6	2149.9	2260.7	2713.4	2956.0	4147.8	17296.3	25922.4	25886.4	18772.9	17078.3
71°	1949.5	1932.0	2064.7	2567.5	2904.1	3457.0	14933.6	25929.5	26037.6	19542.9	17011.5
72.5°	1587.4	1593.6	1734.2	2285.3	2865.4	3052.6	10975.6	24720.9	24949.4	20276.9	16404.1
75°	1054.8	1060.0	1244.6	1757.9	2778.4	2986.7	6032.3	20743.6	21163.7	19837.4	14968.8
77.5°	708.4	706.7	832.4	1205.9	2420.7	2986.7	3537.0	15514.6	15976.1	15784.5	11539.9
80°	487.8	484.3	573.1	832.4	1832.6	3022.8	2734.5	10872.8	11012.6	8524.2	4690.2
82.5°	298.8	301.5	374.4	588.0	1247.3	2720.4	2581.5	5928.6	5776.6	2390.8	1171.7
85°	171.4	170.5	239.1	398.2	800.7	2295.9	2517.4	2551.6	2340.7	719.9	423.7
87.5°	61.5	65.9	128.3	220.6	458.8	1598.8	2135.9	1327.2	1196.3	325.2	191.6
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°	5831.9	5831.9	5831.9	5831.9	5831.9	5831.9	5831.9	5831.9	5831.9	5831.9	5831.9
2.5°	5824.9	5830.2	5824.0	5788.9	5759.0	5710.6	5683.4	5645.6	5634.2	5628.9	5643.0
5°	5846.9	5848.6	5796.8	5704.5	5600.8	5478.6	5390.7	5282.6	5231.6	5209.6	5223.7
7.5°	5867.1	5859.2	5745.8	5569.1	5377.5	5164.8	4975.8	4802.7	4701.6	4660.3	4663.8
10°	5869.7	5836.3	5654.4	5381.0	5083.9	4771.9	4481.8	4214.6	4045.9	3936.0	3969.4
12.5°	5842.5	5786.2	5519.9	5137.6	4725.3	4299.9	3907.9	3507.1	3266.2	3154.6	3158.1
15°	5821.4	5719.4	5354.7	4851.0	4297.3	3733.8	3198.6	2727.4	2470.8	2356.5	2302.9
17.5°	5803.8	5647.4	5163.0	4528.4	3791.9	3077.3	2433.9	2013.7	1873.1	1839.7	1825.6
20°	5779.2	5570.9	4949.5	4154.9	3216.1	2342.4	1777.3	1569.8	1570.7	1609.4	1614.7
22.5°	5744.9	5483.9	4721.8	3735.6	2598.2	1706.1	1393.2	1333.4	1394.0	1467.9	1481.1
25°	5693.9	5381.0	4468.7	3272.4	1981.2	1311.4	1190.1	1187.5	1261.3	1338.7	1350.1
27.5°	5621.9	5246.5	4187.4	2774.9	1460.0	1114.5	1066.2	1084.6	1139.1	1195.4	1199.8
30°	5525.2	5090.1	3877.1	2250.2	1144.4	992.4	987.1	1003.8	1037.2	1076.7	1080.2
32.5°	5418.8	4931.0	3545.7	1742.1	980.0	926.4	931.7	939.6	955.4	971.3	974.8
35°	5322.1	4768.4	3206.5	1323.7	901.8	883.4	879.8	878.1	879.8	874.6	875.4
37.5°	5259.7	4633.9	2853.1	1053.9	857.0	845.6	835.0	821.8	806.9	798.1	799.9
40°	5236.9	4533.7	2495.4	910.6	820.1	812.2	791.9	763.8	746.2	741.0	741.0
42.5°	5298.4	4481.8	2149.9	838.5	789.3	776.1	742.7	710.2	697.0	696.1	695.3
45°	5486.5	4502.9	1821.2	799.0	761.2	735.7	691.7	664.5	655.7	657.5	656.6
47.5°	5824.0	4635.7	1539.9	772.6	733.1	699.7	650.4	628.5	617.9	617.9	618.8
50°	6398.0	4945.9	1315.8	750.6	709.3	666.3	620.5	593.3	579.2	578.4	578.4
52.5°	7233.9	5501.4	1176.1	732.2	683.0	636.4	590.7	556.4	539.7	536.2	534.4
55°	8281.6	6297.8	1137.4	719.9	647.8	603.8	554.6	520.3	501.9	494.0	493.1
57.5°	9453.3	7266.4	1213.9	704.9	611.8	565.2	515.1	482.6	463.2	453.5	452.7
60°	10639.0	8323.8	1525.9	683.8	581.9	523.0	474.6	444.8	425.4	414.9	413.1
62.5°	11826.5	9438.3	2163.1	682.1	560.8	482.6	433.3	407.8	389.4	378.0	375.3
65°	13166.0	10658.3	2887.4	728.7	553.7	445.6	391.1	370.9	355.1	344.6	343.7
67.5°	14704.2	12035.7	2818.0	824.5	577.5	412.2	351.6	335.8	324.3	315.5	314.7
70°	15425.8	11820.3	1751.8	892.1	610.9	379.7	313.8	302.4	293.6	287.4	284.8
71°	15123.5	11223.5	1468.8	884.2	607.4	365.6	298.8	290.1	281.3	276.0	273.4
72.5°	14299.0	10235.6	1225.3	822.7	567.8	340.2	279.5	270.7	262.8	256.7	254.9
75°	12831.1	9141.2	980.9	657.5	452.7	287.4	245.2	235.6	229.4	225.9	222.4
77.5°	9432.2	6523.7	758.5	519.5	333.1	234.7	209.2	202.2	196.0	190.7	188.1
80°	3613.4	2527.0	510.7	387.6	244.4	185.5	168.8	165.2	159.1	155.6	155.6
82.5°	973.0	755.0	272.5	234.7	163.5	135.4	129.2	127.4	122.2	115.1	116.0
85°	393.8	333.1	152.9	129.2	100.2	80.0	87.0	87.9	81.7	73.0	73.8
87.5°	173.2	141.5	85.3	57.1	43.9	30.8	39.6	39.6	36.0	29.9	27.2
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)