

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: P321087

Luminaire Tested: **GAN-SA3C-827-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16286 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 166
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

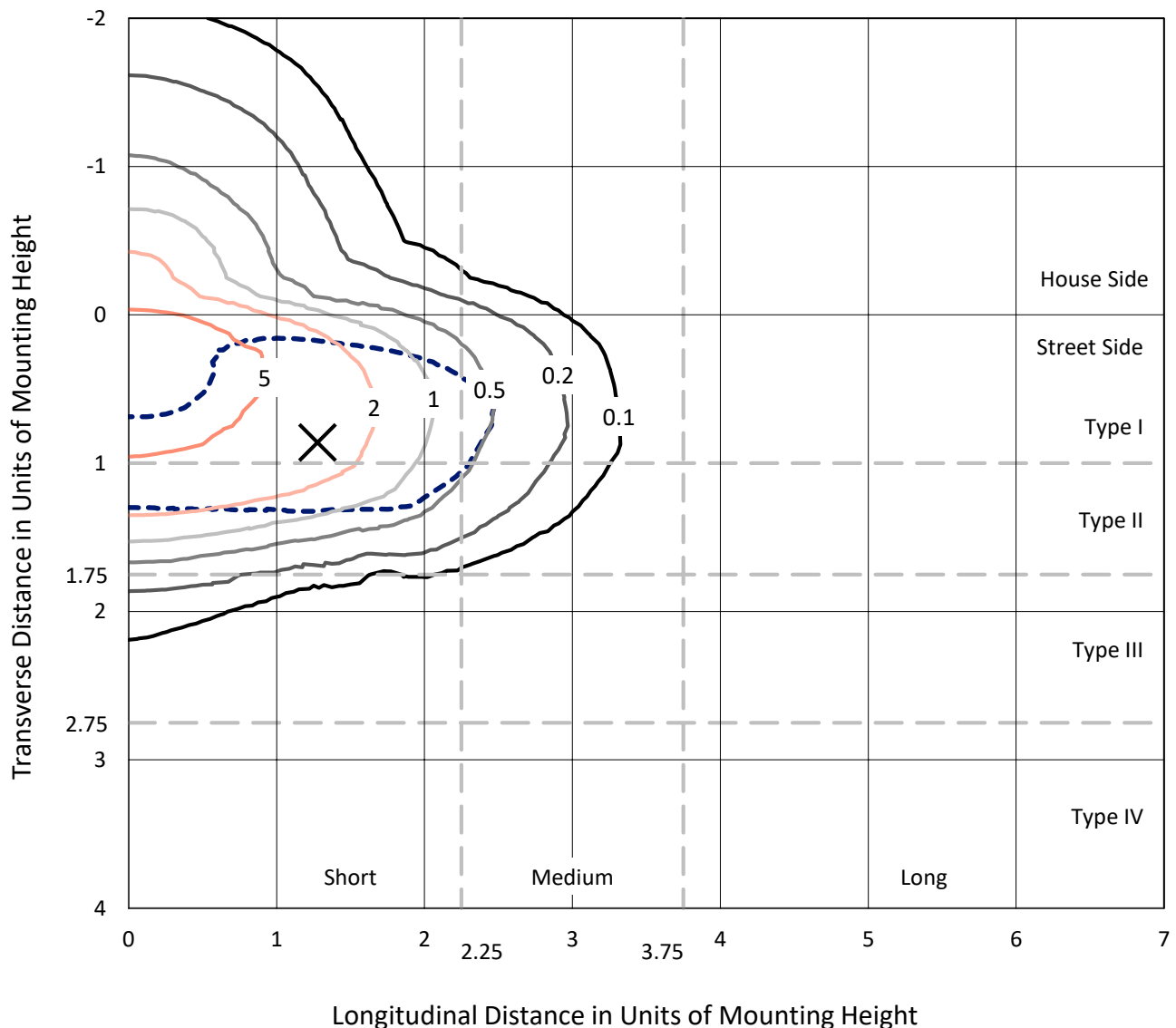


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Iso-Footcandle Lines of Horizontal Illumination

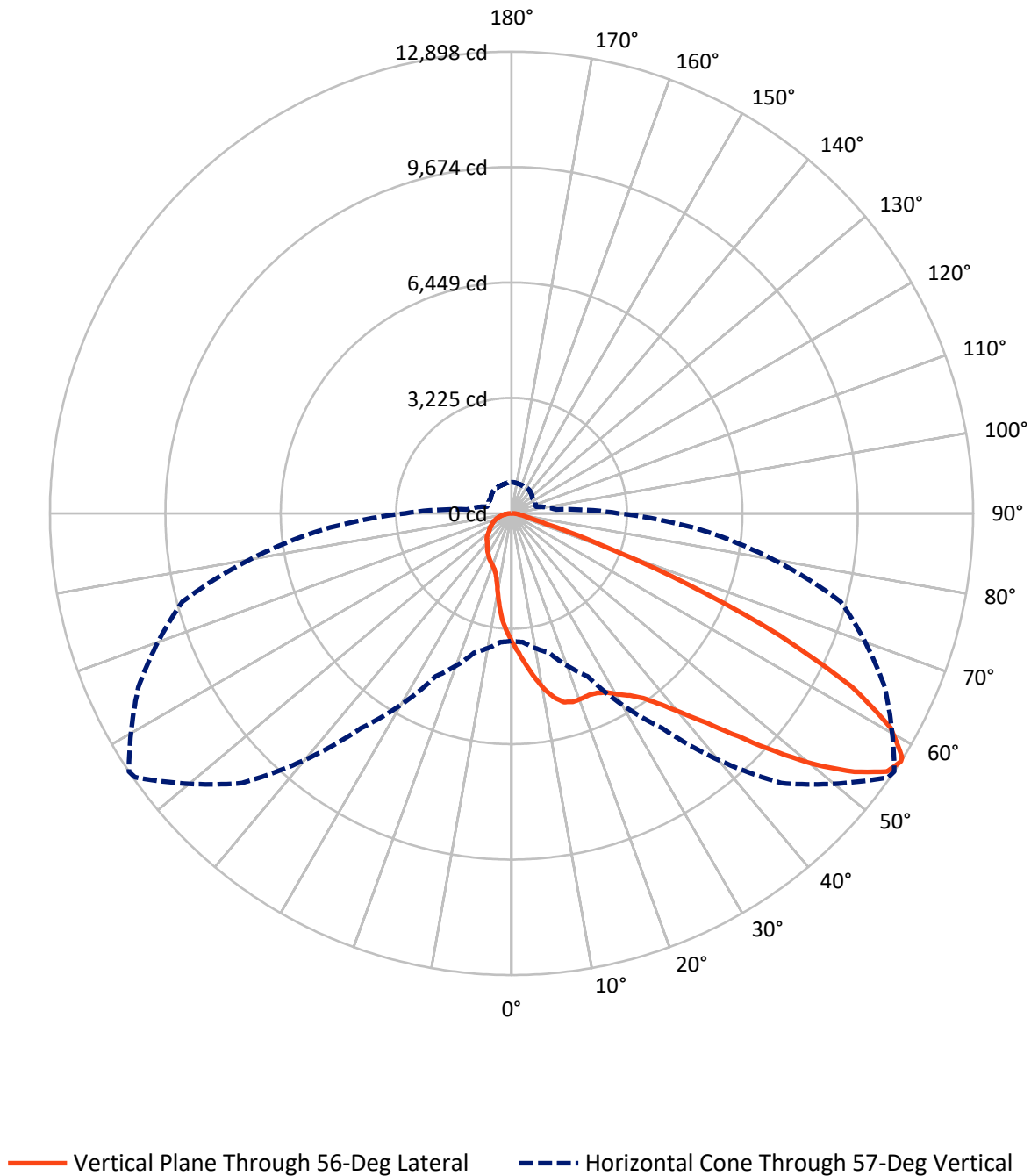
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	2807.4	0.0	2807.4
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	13478.6	0.0	13478.6
	% Fixture	82.8	0.0	82.8
Total	Lumens	16286.0	0.0	16286.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.1	2.1
10°-20°	975.6	6.0
20°-30°	1589.0	9.8
30°-40°	2375.4	14.6
40°-50°	3603.0	22.1
50°-60°	4038.3	24.8
60°-70°	2385.2	14.6
70°-80°	781.5	4.8
80°-90°	193.1	1.2
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°	16286.0	100.0
0°-180°	16286.0	100.0

Coefficient of Utilization



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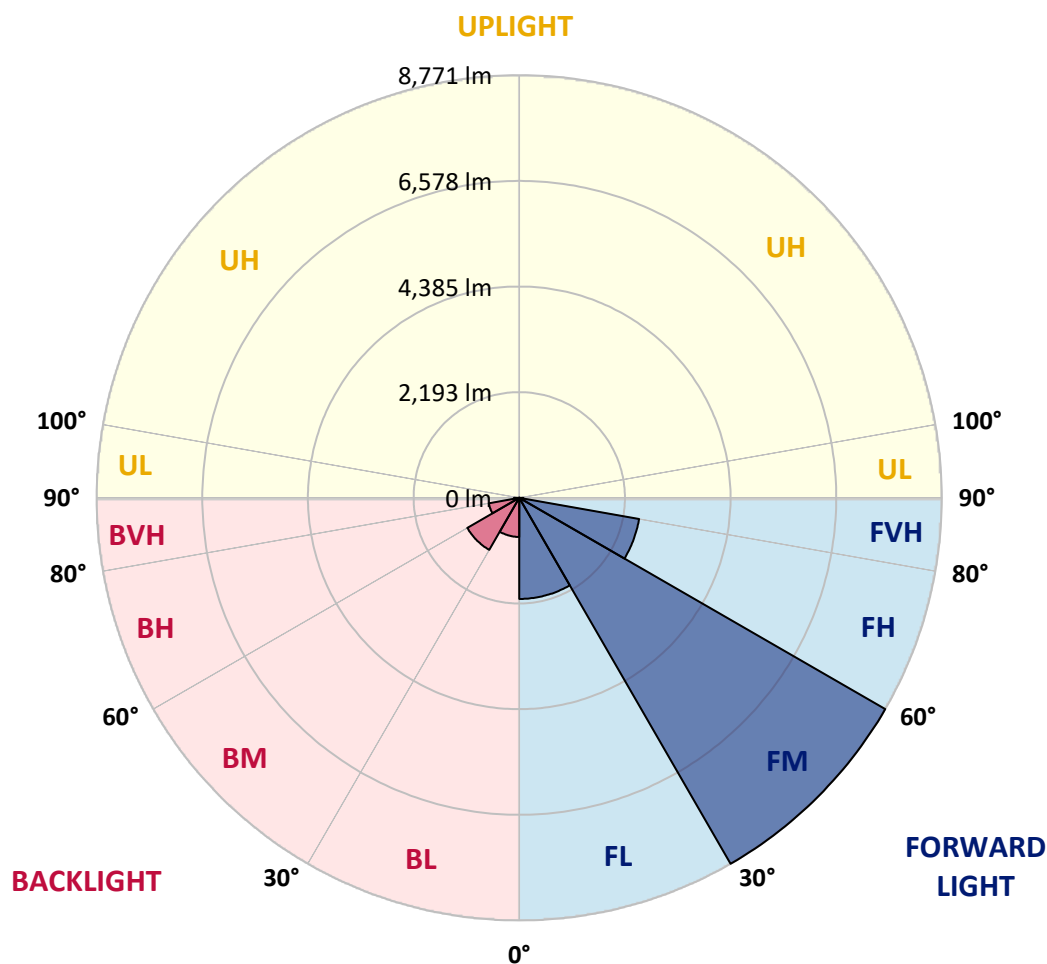
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2097.9	12.9			
FM	(30°-60°)	8770.5	53.9			
FH	(60°-80°)	2525.2	15.5			G2/5000
FVH	(80°-90°)	85.0	0.5			G1/100
BL	(0°-30°)	811.8	5.0	B2/1000		
BM	(30°-60°)	1246.1	7.7	B2/2500		
BH	(60°-80°)	641.5	3.9	B2/1000		G2/1000
BVH	(80°-90°)	108.1	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2
2.5°	4147.9	4185.9	4169.1	4110.9	4066.2	4002.9	3932.4	3911.1	3836.7	3753.3	3653.1
5°	4804.4	4785.4	4757.9	4667.3	4571.6	4460.2	4283.3	4255.3	4089.7	3901.1	3701.8
7.5°	5178.3	5176.6	5160.4	5107.2	5019.9	4874.4	4661.1	4628.1	4377.9	4074.6	3765.6
10°	5124.0	5120.1	5146.9	5202.3	5228.6	5198.4	5018.8	4985.7	4678.5	4266.5	3839.5
12.5°	4815.6	4817.8	4860.9	4977.3	5135.7	5326.0	5296.9	5280.7	4990.2	4483.7	3929.0
15°	4575.5	4580.5	4614.7	4716.0	4902.9	5248.2	5465.9	5471.5	5291.9	4723.2	4033.7
17.5°	4470.3	4480.9	4496.6	4567.6	4738.9	5093.2	5506.2	5536.5	5556.1	4971.7	4134.4
20°	4503.8	4513.9	4518.4	4563.7	4704.2	4999.2	5478.3	5532.6	5758.7	5205.7	4235.2
22.5°	4654.4	4660.6	4663.4	4675.1	4784.2	5026.0	5459.8	5516.9	5905.3	5415.6	4311.3
25°	4904.0	4899.5	4881.6	4866.5	4939.8	5132.4	5502.3	5556.6	6024.5	5605.9	4361.1
27.5°	5202.9	5197.3	5162.6	5121.2	5163.2	5298.0	5624.9	5668.0	6131.4	5783.9	4386.3
30°	5561.7	5547.1	5481.6	5432.4	5448.6	5546.5	5826.9	5866.1	6296.5	5985.9	4410.9
32.5°	5976.4	5960.7	5866.1	5784.4	5784.4	5866.1	6035.2	6067.6	6436.5	6214.3	4450.7
35°	6495.8	6476.2	6353.1	6215.9	6177.3	6218.7	6318.9	6341.9	6688.3	6501.9	4522.9
37.5°	7108.1	7081.8	6922.3	6738.7	6654.2	6651.9	6724.1	6771.1	7090.7	6879.7	4645.4
40°	7722.1	7703.6	7564.2	7419.8	7254.2	7201.0	7312.4	7326.9	7616.8	7348.8	4802.2
42.5°	8196.7	8193.3	8167.6	8186.6	8017.0	7909.6	7996.9	8008.6	8259.4	7856.4	4968.9
45°	8447.4	8453.0	8577.8	8854.3	8917.0	8838.6	8881.7	8885.1	8993.7	8368.5	5121.7
47.5°	8246.5	8275.6	8591.3	9209.7	9723.0	9983.2	9911.6	9953.0	9705.6	8808.4	5241.5
50°	7463.5	7499.3	8036.6	9051.3	10099.1	11090.8	11053.3	11043.8	10279.9	9130.8	5306.4
52.5°	6493.5	6521.5	6964.8	8228.0	9823.1	11703.2	12047.4	11998.1	10790.3	9372.0	5318.7
55°	5016.5	5060.2	5485.0	6584.8	8707.1	11469.2	12778.3	12734.1	11255.4	9498.5	5304.2
57°	3566.4	3612.2	4034.3	5025.5	7324.7	10659.3	12851.1	12898.1	11506.7	9519.8	5320.4
57.5°	3182.4	3229.4	3647.5	4610.2	6893.7	10366.6	12788.4	12866.8	11552.0	9516.4	5329.4
60°	1602.4	1620.3	1886.7	2573.5	4357.8	8380.8	11970.7	12172.7	11592.9	9351.9	5368.0
62.5°	996.3	983.4	975.0	1185.4	2120.1	5557.7	10283.2	10672.2	10811.0	8953.4	5274.5
65°	875.9	851.9	759.5	742.7	936.4	2699.4	7743.9	8228.0	9140.3	8325.4	5051.8
67.5°	822.7	799.2	695.1	632.5	633.0	1070.1	4807.8	5352.9	7120.4	7263.7	4526.2
70°	767.9	746.6	649.2	575.4	539.0	592.7	2211.9	2625.5	4641.5	5709.4	3783.0
72.5°	697.4	682.8	590.5	514.4	475.7	443.8	846.8	1000.2	2687.1	3834.4	2627.2
75°	623.5	610.1	531.1	458.4	411.4	349.2	476.9	513.8	1365.1	1961.7	1293.4
77.5°	542.3	534.5	472.4	405.2	367.7	289.4	337.5	355.4	585.4	841.2	648.7
80°	431.5	446.6	413.1	361.0	326.3	231.7	239.0	250.7	340.9	410.8	368.3
82.5°	281.0	307.3	323.5	293.3	268.7	182.5	171.8	176.9	222.2	250.7	160.1
85°	117.0	131.5	212.7	192.0	178.5	133.2	115.3	117.5	137.7	142.7	65.5
87.5°	52.1	55.4	93.5	87.9	75.6	45.9	49.3	53.7	73.3	69.4	25.2
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°	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2	3612.2
2.5°	3615.6	3568.6	3488.0	3399.0	3326.2	3268.0	3209.3	3169.0	3122.0	3096.8	3083.9
5°	3618.4	3526.1	3356.5	3182.4	3026.8	2884.7	2749.2	2645.1	2547.7	2495.1	2480.6
7.5°	3630.2	3491.4	3217.1	2930.5	2654.1	2401.6	2206.9	2084.9	1997.0	1957.8	1946.6
10°	3639.7	3450.5	3044.7	2620.5	2244.4	1988.6	1837.5	1769.2	1739.0	1733.9	1728.9
12.5°	3662.1	3408.5	2863.4	2297.0	1925.9	1749.0	1696.4	1691.9	1700.3	1712.7	1712.7
15°	3697.3	3367.1	2656.3	2019.4	1723.3	1661.2	1671.8	1696.4	1719.4	1738.4	1741.2
17.5°	3723.1	3316.2	2433.5	1797.2	1615.3	1632.1	1670.1	1704.8	1728.3	1746.8	1748.5
20°	3741.5	3237.3	2195.7	1627.6	1553.1	1605.2	1652.8	1683.6	1699.8	1718.3	1721.1
22.5°	3732.0	3131.5	1984.7	1506.1	1502.8	1566.0	1611.4	1648.3	1636.0	1618.1	1629.8
25°	3686.1	2986.0	1767.5	1415.5	1449.6	1513.4	1569.4	1544.7	1503.3	1495.5	1500.0
27.5°	3604.4	2800.1	1566.6	1331.5	1388.0	1464.7	1461.4	1436.7	1422.2	1412.1	1418.3
30°	3516.5	2598.6	1390.8	1258.2	1319.8	1383.0	1370.1	1369.6	1355.0	1338.8	1346.6
32.5°	3429.8	2396.0	1251.5	1197.7	1268.3	1276.7	1304.6	1313.0	1284.5	1250.4	1248.1
35°	3354.2	2204.6	1145.7	1142.9	1206.1	1207.3	1248.1	1236.4	1165.3	1130.0	1130.0
37.5°	3297.7	2013.8	1065.1	1093.6	1124.4	1153.5	1174.2	1125.5	1113.8	1094.2	1093.6
40°	3273.1	1845.9	1014.7	1056.1	1066.8	1103.7	1050.5	1069.6	1075.2	1065.1	1065.1
42.5°	3247.3	1699.8	971.1	1027.6	1025.9	1020.9	994.0	1018.6	1041.0	1041.6	1039.9
45°	3221.6	1573.9	932.4	966.6	990.1	935.8	940.8	967.1	998.5	1009.7	1009.7
47.5°	3193.0	1474.2	897.2	902.2	938.6	902.2	898.3	918.5	955.4	973.3	977.2
50°	3130.4	1384.7	856.9	845.7	855.8	868.1	871.4	881.0	921.8	950.4	957.1
52.5°	3043.6	1304.6	805.4	793.6	793.6	840.1	855.8	858.6	893.3	927.4	934.1
55°	2971.4	1253.7	752.2	750.0	747.7	810.4	837.3	841.8	865.8	892.7	896.1
57°	2976.4	1249.8	711.4	713.6	713.0	780.2	819.9	829.5	841.8	864.7	868.6
57.5°	2979.2	1252.6	702.4	703.5	703.0	771.8	814.9	825.5	835.1	859.1	863.0
60°	3021.2	1259.9	666.0	653.7	656.5	727.0	786.4	799.8	806.0	837.9	842.9
62.5°	2959.1	1227.4	636.9	607.3	607.3	680.0	746.6	767.9	777.4	820.5	828.9
65°	2778.9	1136.2	602.8	554.7	560.3	633.0	699.1	733.8	748.3	802.0	811.0
67.5°	2500.7	1030.4	566.4	507.6	513.2	583.8	649.8	687.3	710.2	781.9	789.2
70°	2138.6	901.1	517.2	457.8	464.5	530.0	591.6	634.1	668.3	762.9	765.1
72.5°	1576.7	738.8	448.3	403.0	410.3	467.3	532.8	582.1	628.0	715.3	714.2
75°	937.5	577.6	372.2	347.6	352.6	405.8	479.7	539.5	608.4	696.8	707.5
77.5°	568.6	434.9	303.4	291.0	297.2	351.5	441.6	505.4	600.0	657.1	653.7
80°	343.7	310.6	242.3	234.5	240.7	300.6	408.6	479.7	524.4	561.4	561.4
82.5°	179.7	189.7	178.0	171.8	180.2	244.0	371.6	418.6	463.4	397.9	371.6
85°	73.3	99.1	108.0	107.5	112.5	169.0	320.7	358.2	298.9	283.8	290.5
87.5°	24.6	42.0	52.6	45.3	47.6	106.3	222.2	172.9	205.4	143.3	136.0
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)