

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: P319504

Luminaire Tested: **GAN-SA0D-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319504
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-SA0D-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1200mA 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: 55307 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

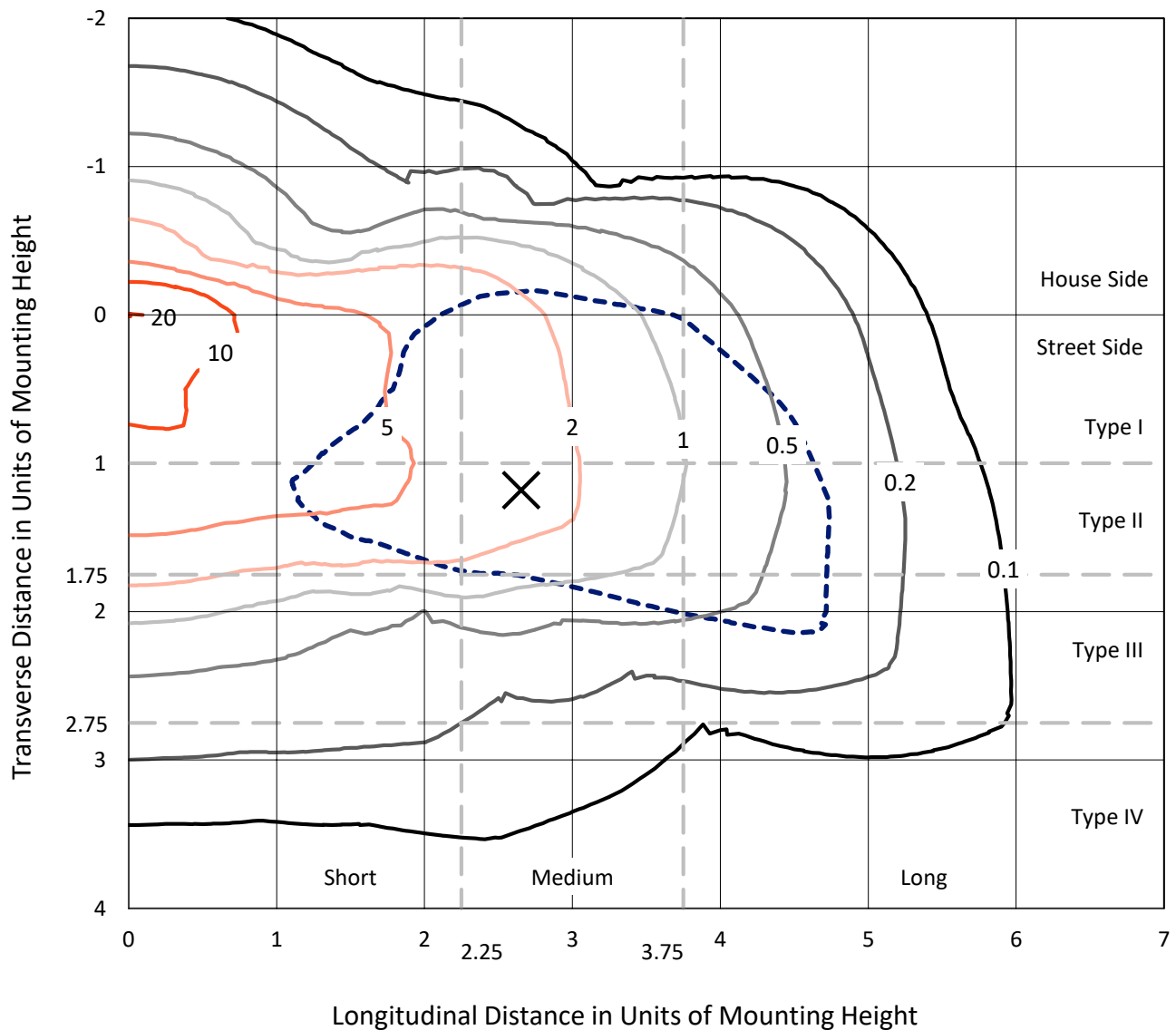
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

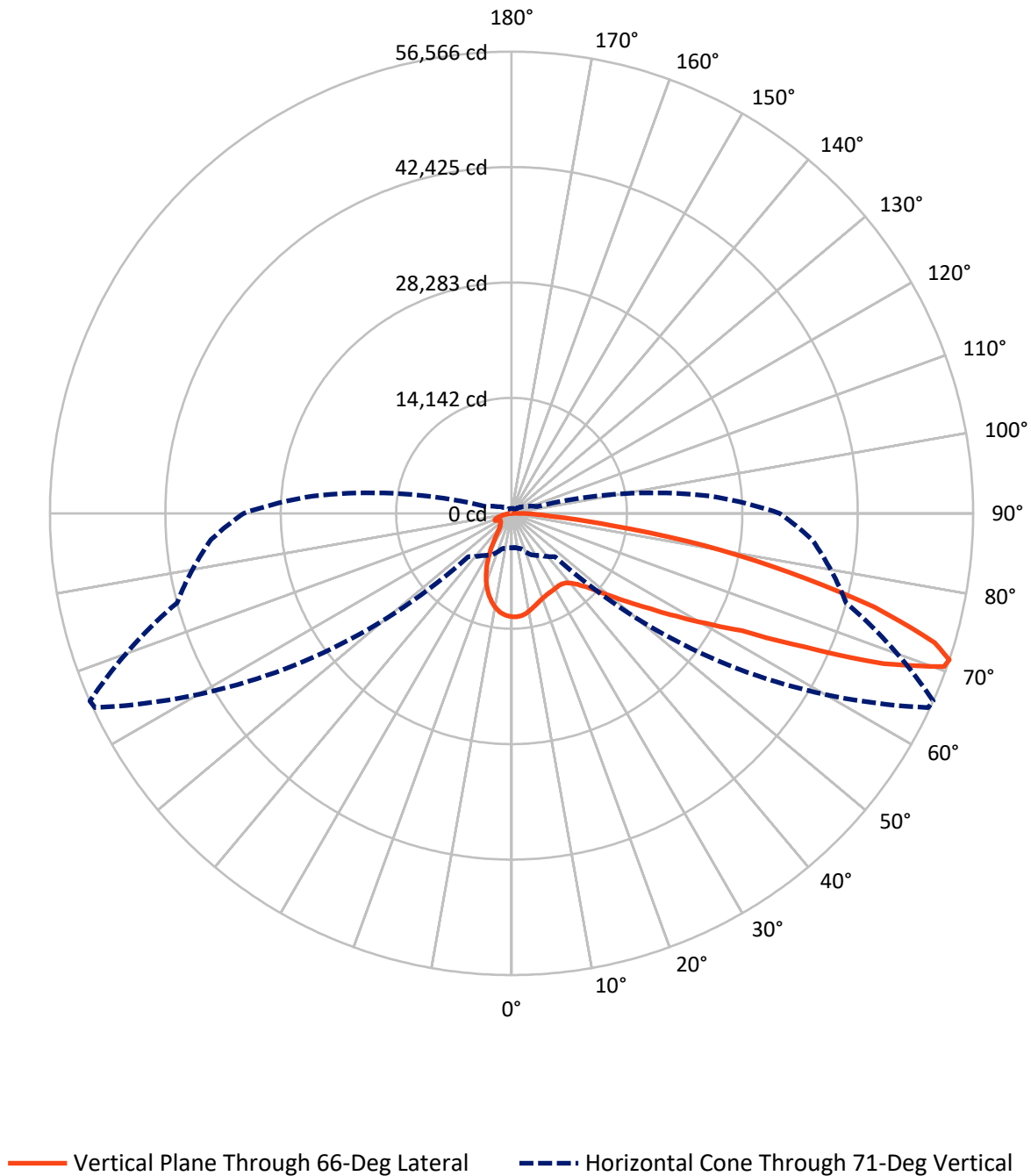
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 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	10249.9	0.0	10249.9
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	45057.1	0.0	45057.1
	% Fixture	81.5	0.0	81.5
Total	Lumens	55307.0	0.0	55307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1115.2	2.0
10°-20°	2674.8	4.8
20°-30°	3593.0	6.5
30°-40°	4726.5	8.5
40°-50°	6875.8	12.4
50°-60°	10740.7	19.4
60°-70°	13454.5	24.3
70°-80°	10262.8	18.6
80°-90°	1863.6	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°	55307.0	100.0
0°-180°	55307.0	100.0

Coefficient of Utilization



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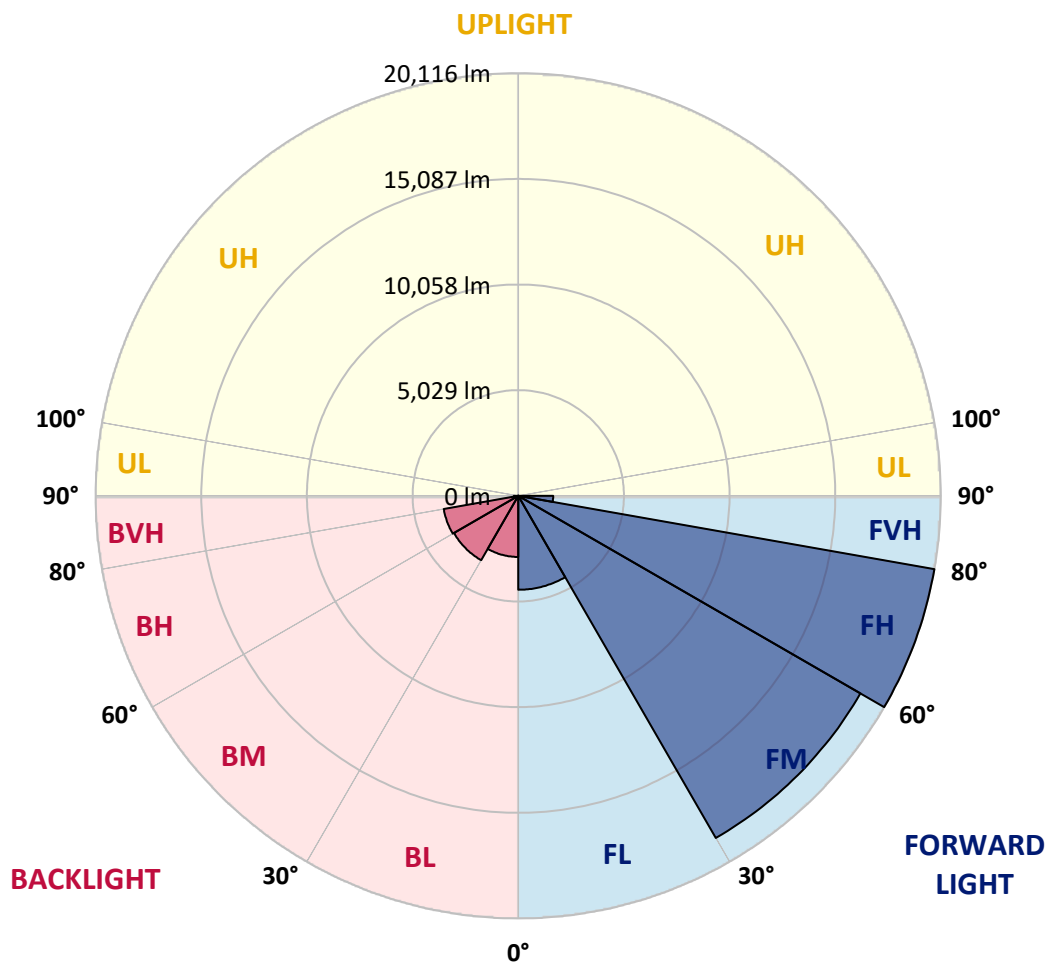
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4472.3	8.1			
FM	(30°-60°)	18807.1	34.0			
FH	(60°-80°)	20115.7	36.4			G5
FVH	(80°-90°)	1661.9	3.0			G5
BL	(0°-30°)	2910.7	5.3	B4/5000		
BM	(30°-60°)	3535.9	6.4	B3/5000		
BH	(60°-80°)	3601.6	6.5	B4/5000		G4/5000
BVH	(80°-90°)	201.7	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	12669.8	12669.8	12669.8	12669.8	12669.8	12669.8	12669.8	12669.8	12669.8	12669.8	12669.8
2.5°	12434.9	12415.8	12473.1	12532.3	12555.2	12593.4	12650.7	12683.1	12681.2	12686.9	12667.9
5°	11610.0	11585.1	11699.7	11793.3	11972.8	12175.2	12421.5	12597.2	12601.0	12700.3	12727.0
7.5°	10829.0	10811.8	10943.5	11094.4	11302.5	11611.9	12011.0	12389.1	12412.0	12681.2	12774.8
10°	10202.6	10198.8	10326.8	10491.0	10733.5	11079.1	11537.4	12091.2	12125.5	12589.6	12782.4
12.5°	9713.8	9721.4	9832.2	10019.3	10275.2	10636.1	11132.6	11757.0	11812.4	12444.4	12738.5
15°	9352.9	9383.5	9473.2	9662.2	9914.3	10280.9	10790.8	11447.7	11531.7	12282.1	12713.7
17.5°	9146.7	9181.0	9244.1	9400.6	9637.4	9990.7	10473.8	11193.7	11270.1	12158.0	12715.6
20°	9085.6	9114.2	9150.5	9246.0	9446.5	9767.3	10223.6	10964.5	11046.7	12058.7	12734.7
22.5°	9205.9	9226.9	9230.7	9223.1	9345.3	9606.9	10042.2	10796.5	10884.3	11993.8	12748.1
25°	9463.7	9492.3	9471.3	9400.6	9360.5	9520.9	9948.7	10685.8	10773.6	11946.0	12721.3
27.5°	9851.3	9855.1	9837.9	9746.3	9557.2	9530.5	9920.0	10620.8	10704.9	11890.7	12665.9
30°	10378.3	10403.1	10372.6	10248.5	9939.1	9683.3	9954.4	10557.8	10634.2	11820.0	12576.2
32.5°	10995.1	11056.2	11054.3	10924.4	10481.4	10025.1	10095.7	10519.6	10578.8	11745.5	12467.4
35°	11634.8	11718.8	11875.4	11820.0	11272.0	10565.5	10366.9	10580.7	10620.8	11736.0	12391.0
37.5°	12299.3	12383.3	12706.0	12855.0	12213.4	11338.8	10794.6	10796.5	10815.6	11852.5	12385.2
40°	12994.4	13084.1	13569.2	13956.8	13433.6	12318.4	11483.9	11247.2	11226.2	12138.9	12497.9
42.5°	13968.2	14048.4	14630.9	15125.4	14787.4	13573.0	12436.8	11942.2	11898.3	12700.3	12858.8
45°	15199.9	15268.6	15887.3	16416.3	16242.5	15005.1	13634.1	12898.9	12891.3	13636.0	13590.2
47.5°	16664.5	16718.0	17273.7	17785.4	17848.4	16653.1	15138.8	14375.0	14250.9	14919.2	14722.5
50°	18190.2	18249.4	18627.5	19177.5	19645.3	18858.6	17075.1	16183.3	16017.2	16613.0	16326.5
52.5°	19200.4	19278.7	19607.1	20304.1	21665.6	21276.0	19364.6	18375.5	18123.4	18665.7	18446.1
55°	18749.7	18925.4	19427.6	20544.7	23281.0	24969.1	22188.8	20932.3	20647.8	21098.4	20968.6
57.5°	16700.8	16941.4	17626.9	19351.2	23508.3	28222.9	26458.5	23943.7	23743.2	23613.3	23672.5
60°	12956.2	13187.2	14037.0	16284.5	21925.3	30598.4	32884.1	27655.8	27365.5	26137.7	26191.2
62.5°	9169.6	9053.1	9635.5	11279.6	17816.0	30877.2	40195.7	32620.6	31665.8	28803.4	28568.5
65°	6992.7	6966.0	7227.6	7750.8	10790.8	27541.2	44551.4	40965.2	39473.9	31938.9	31385.1
67.5°	5745.8	5698.1	5955.8	6717.7	6948.8	17768.2	44646.8	50646.6	49182.0	35842.0	34642.8
70°	4724.2	4670.7	4911.3	5894.7	6421.8	9011.1	37575.8	56316.0	56237.7	40783.8	37102.3
71°	4235.3	4197.2	4485.5	5577.8	6309.1	7510.2	32443.0	56331.3	56566.1	42456.6	36957.1
72.5°	3448.6	3462.0	3767.5	4964.8	6225.1	6631.8	23844.4	53705.7	54202.1	44051.1	35637.6
75°	2291.4	2302.9	2703.9	3819.1	6036.0	6488.6	13105.1	45065.0	45977.8	43096.3	32519.4
77.5°	1539.1	1535.3	1808.3	2619.9	5258.9	6488.6	7684.0	33705.2	34707.7	34291.4	25070.3
80°	1059.8	1052.2	1245.0	1808.3	3981.4	6566.9	5940.6	23620.9	23924.6	18518.7	10189.3
82.5°	649.2	655.0	813.5	1277.5	2709.6	5910.0	5608.3	12879.8	12549.5	5193.9	2545.4
85°	372.4	370.4	519.4	865.0	1739.6	4987.7	5468.9	5543.4	5085.1	1563.9	920.4
87.5°	133.7	143.2	278.8	479.3	996.8	3473.4	4640.2	2883.4	2598.9	706.5	416.3
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°	12669.8	12669.8	12669.8	12669.8	12669.8	12669.8	12669.8	12669.8	12669.8	12669.8	12669.8
2.5°	12654.5	12665.9	12652.6	12576.2	12511.3	12406.2	12347.1	12264.9	12240.1	12228.7	12259.2
5°	12702.2	12706.0	12593.4	12392.9	12167.6	11902.1	11711.2	11476.3	11365.6	11317.8	11348.4
7.5°	12746.1	12729.0	12482.6	12098.8	11682.5	11220.4	10809.9	10433.7	10214.1	10124.4	10132.0
10°	12751.9	12679.3	12284.0	11690.2	11044.7	10366.9	9736.7	9156.2	8789.6	8550.9	8623.5
12.5°	12692.7	12570.5	11991.9	11161.2	10265.7	9341.4	8489.8	7619.0	7095.8	6853.3	6861.0
15°	12646.8	12425.3	11632.9	10538.7	9335.7	8111.7	6948.8	5925.3	5367.7	5119.5	5003.0
17.5°	12608.7	12268.8	11216.6	9837.9	8237.7	6685.3	5287.5	4374.7	4069.2	3996.7	3966.1
20°	12555.2	12102.6	10752.6	9026.4	6987.0	5088.9	3861.1	3410.4	3412.3	3496.4	3507.8
22.5°	12480.7	11913.6	10258.0	8115.5	5644.6	3706.4	3026.6	2896.8	3028.5	3188.9	3217.6
25°	12370.0	11690.2	9708.1	7109.2	4304.1	2849.0	2585.5	2579.8	2740.2	2908.2	2933.0
27.5°	12213.4	11398.0	9097.0	6028.4	3171.7	2421.3	2316.3	2356.4	2474.8	2597.0	2606.5
30°	12003.3	11058.1	8423.0	4888.4	2486.2	2155.9	2144.4	2180.7	2253.3	2339.2	2346.8
32.5°	11772.3	10712.5	7703.1	3784.7	2129.1	2012.6	2024.1	2041.3	2075.7	2110.0	2117.7
35°	11562.2	10359.2	6966.0	2875.8	1959.2	1919.1	1911.4	1907.6	1911.4	1900.0	1901.9
37.5°	11426.7	10067.1	6198.3	2289.5	1861.8	1837.0	1814.1	1785.4	1753.0	1733.9	1737.7
40°	11377.0	9849.4	5421.2	1978.3	1781.6	1764.4	1720.5	1659.4	1621.2	1609.7	1609.7
42.5°	11510.7	9736.7	4670.7	1821.7	1714.8	1686.1	1613.6	1542.9	1514.3	1512.4	1510.4
45°	11919.3	9782.5	3956.6	1735.8	1653.7	1598.3	1502.8	1443.6	1424.5	1428.3	1426.4
47.5°	12652.6	10070.9	3345.5	1678.5	1592.6	1520.0	1413.1	1365.3	1342.4	1342.4	1344.3
50°	13899.5	10745.0	2858.6	1630.7	1541.0	1447.4	1348.1	1288.9	1258.4	1256.5	1256.5
52.5°	15715.5	11951.8	2555.0	1590.6	1483.7	1382.5	1283.2	1208.7	1172.5	1164.8	1161.0
55°	17991.6	13681.8	2470.9	1563.9	1407.3	1311.9	1204.9	1130.4	1090.3	1073.2	1071.2
57.5°	20537.0	15786.1	2637.1	1531.4	1329.0	1227.8	1119.0	1048.3	1006.3	985.3	983.4
60°	23113.0	18083.3	3315.0	1485.6	1264.1	1136.2	1031.1	966.2	924.2	901.3	897.5
62.5°	25692.8	20504.6	4699.4	1481.8	1218.3	1048.3	941.4	886.0	845.9	821.1	815.4
65°	28602.9	23155.0	6272.8	1583.0	1203.0	968.1	849.7	805.8	771.5	748.5	746.6
67.5°	31944.6	26147.3	6122.0	1791.1	1254.6	895.6	763.8	729.4	704.6	685.5	683.6
70°	33512.3	25679.4	3805.7	1938.2	1327.1	824.9	681.7	656.9	637.8	624.4	618.7
71°	32855.5	24382.8	3190.8	1921.0	1319.5	794.4	649.2	630.1	611.1	599.6	593.9
72.5°	31064.3	22236.5	2661.9	1787.3	1233.6	739.0	607.2	588.1	571.0	557.6	553.8
75°	27875.4	19859.2	2131.0	1428.3	983.4	624.4	532.8	511.8	498.4	490.8	483.1
77.5°	20491.2	14172.6	1647.9	1128.5	723.7	509.8	454.5	439.2	425.8	414.4	408.6
80°	7850.1	5489.9	1109.4	842.1	530.9	402.9	366.6	359.0	345.6	338.0	338.0
82.5°	2113.9	1640.3	592.0	509.8	355.2	294.1	280.7	276.9	265.4	250.1	252.1
85°	855.5	723.7	332.3	280.7	217.7	173.8	189.0	191.0	177.6	158.5	160.4
87.5°	376.2	307.4	185.2	124.1	95.5	66.8	85.9	85.9	78.3	64.9	59.2
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)