

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: P319493

Luminaire Tested: **GAN-SA9C-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319493
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-SA9C-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 45536 lumens
Efficiency: N/A
Efficacy: 90.9 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): 501
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

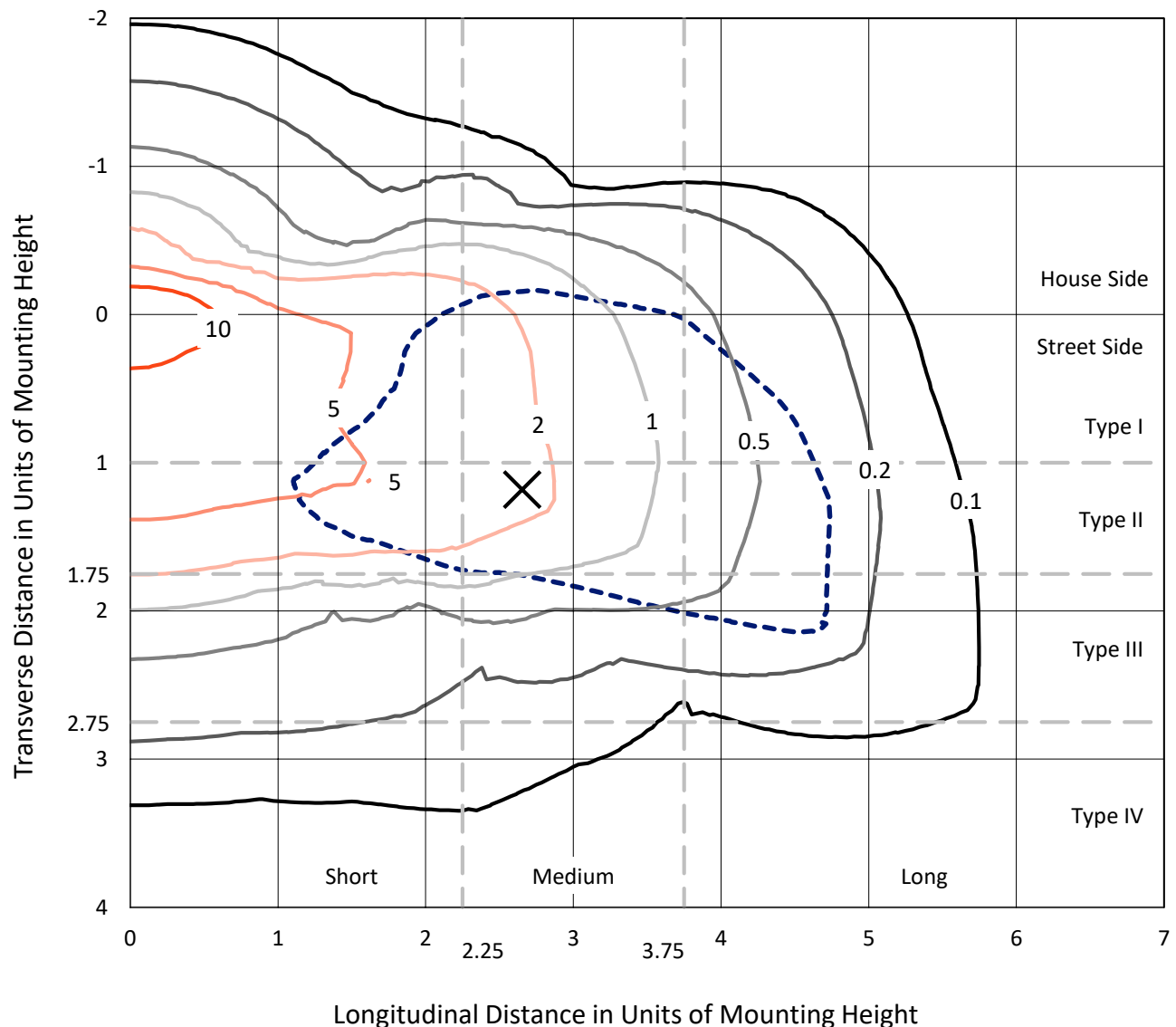


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Iso-Footcandle Lines of Horizontal Illumination

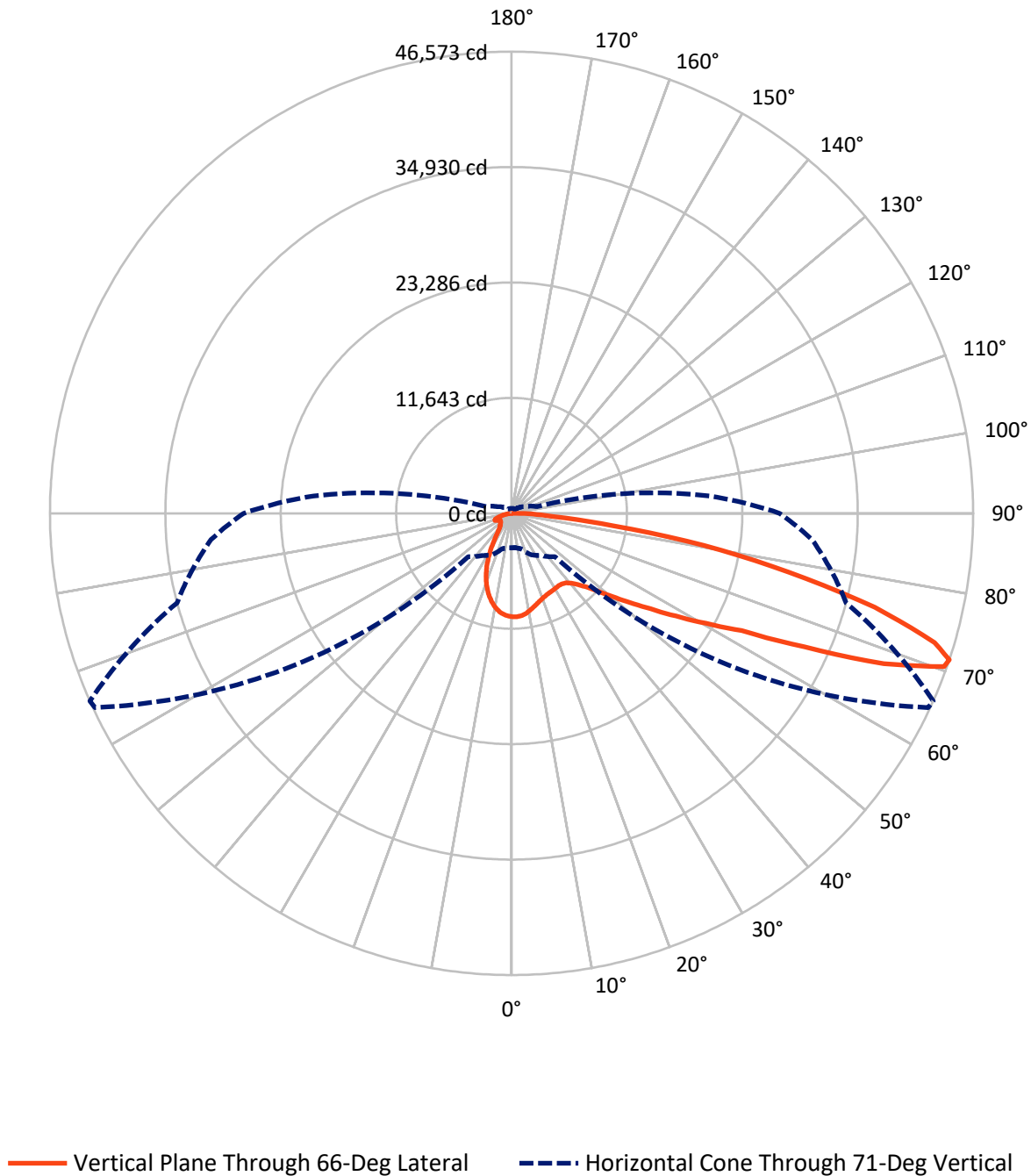
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 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	8439.1	0.0	8439.1
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	37096.9	0.0	37096.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	45536.0	0.0	45536.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	918.2	2.0
10°-20°	2202.3	4.8
20°-30°	2958.2	6.5
30°-40°	3891.5	8.5
40°-50°	5661.1	12.4
50°-60°	8843.2	19.4
60°-70°	11077.5	24.3
70°-80°	8449.7	18.6
80°-90°	1534.4	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°	45536.0	100.0
0°-180°	45536.0	100.0

Coefficient of Utilization



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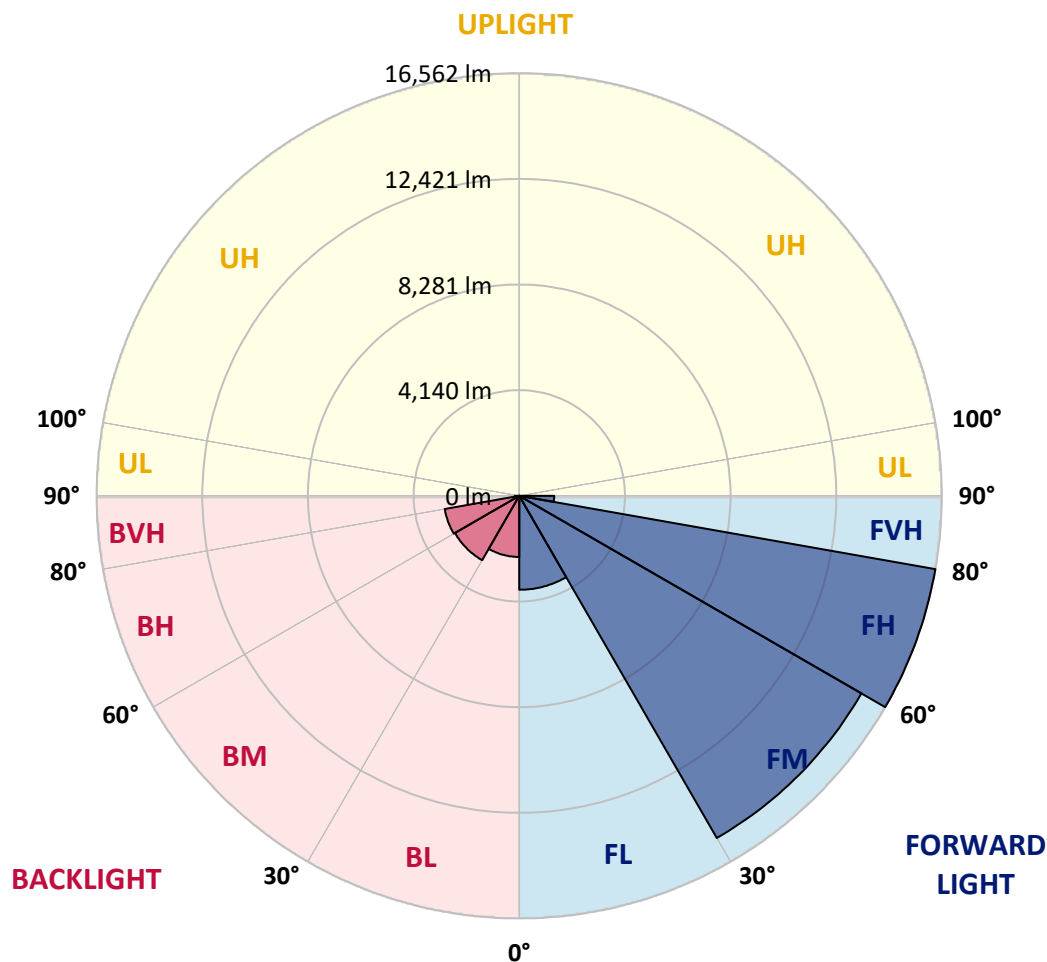
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3682.2	8.1			
FM	(30°-60°)	15484.5	34.0			
FH	(60°-80°)	16561.9	36.4			G5
FVH	(80°-90°)	1368.3	3.0			G5
BL	(0°-30°)	2396.5	5.3	B3/2500		
BM	(30°-60°)	2911.2	6.4	B3/5000		
BH	(60°-80°)	2965.3	6.5	B4/5000		G4/5000
BVH	(80°-90°)	166.1	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°	10431.4	10431.4	10431.4	10431.4	10431.4	10431.4	10431.4	10431.4	10431.4	10431.4	10431.4
2.5°	10238.0	10222.3	10269.5	10318.2	10337.1	10368.5	10415.7	10442.4	10440.8	10445.6	10429.8
5°	9558.9	9538.4	9632.7	9709.8	9857.6	10024.2	10227.0	10371.7	10374.8	10456.6	10478.6
7.5°	8915.8	8901.7	9010.2	9134.4	9305.7	9560.4	9889.0	10200.3	10219.2	10440.8	10517.9
10°	8400.2	8397.0	8502.4	8637.6	8837.2	9121.8	9499.1	9955.0	9983.3	10365.4	10524.2
12.5°	7997.7	8004.0	8095.2	8249.2	8459.9	8757.0	9165.8	9679.9	9725.5	10245.9	10488.0
15°	7700.5	7725.7	7799.6	7955.2	8162.8	8464.6	8884.4	9425.2	9494.4	10112.3	10467.6
17.5°	7530.7	7559.0	7610.9	7739.8	7934.8	8225.6	8623.4	9216.1	9279.0	10010.1	10469.1
20°	7480.4	7504.0	7533.9	7612.5	7777.6	8041.7	8417.5	9027.5	9095.1	9928.3	10484.9
22.5°	7579.5	7596.8	7599.9	7593.6	7694.3	7909.6	8268.1	8889.1	8961.4	9874.9	10495.9
25°	7791.7	7815.3	7798.0	7739.8	7706.8	7838.9	8191.1	8797.9	8870.2	9835.6	10473.9
27.5°	8110.9	8114.0	8099.9	8024.4	7868.8	7846.8	8167.5	8744.5	8813.6	9790.0	10428.3
30°	8544.8	8565.2	8540.1	8437.9	8183.2	7972.5	8195.8	8692.6	8755.5	9731.8	10354.4
32.5°	9052.6	9102.9	9101.4	8994.4	8629.7	8253.9	8312.1	8661.1	8709.9	9670.5	10264.8
35°	9579.3	9648.5	9777.4	9731.8	9280.6	8698.9	8535.4	8711.5	8744.5	9662.6	10201.9
37.5°	10126.4	10195.6	10461.3	10583.9	10055.7	9335.6	8887.5	8889.1	8904.8	9758.5	10197.2
40°	10698.7	10772.6	11171.9	11491.1	11060.3	10142.1	9455.1	9260.1	9242.8	9994.3	10289.9
42.5°	11500.5	11566.5	12046.0	12453.2	12175.0	11175.1	10239.6	9832.4	9796.3	10456.6	10587.1
45°	12514.6	12571.2	13080.5	13516.0	13373.0	12354.2	11225.4	10620.1	10613.8	11226.9	11189.2
47.5°	13720.4	13764.4	14221.9	14643.3	14695.2	13711.0	12464.2	11835.4	11733.2	12283.4	12121.5
50°	14976.6	15025.3	15336.6	15789.4	16174.6	15526.9	14058.4	13324.2	13187.4	13678.0	13442.1
52.5°	15808.3	15872.7	16143.1	16717.0	17838.0	17517.2	15943.5	15129.1	14921.6	15368.1	15187.3
55°	15437.2	15581.9	15995.4	16915.1	19168.0	20557.8	18268.7	17234.2	17000.0	17371.0	17264.1
57.5°	13750.3	13948.4	14512.8	15932.5	19355.1	23236.8	21784.1	19713.6	19548.5	19441.6	19490.3
60°	10667.2	10857.5	11557.1	13407.6	18051.8	25192.6	27074.5	22769.9	22530.9	21520.0	21564.0
62.5°	7549.6	7453.7	7933.2	9286.9	14668.4	25422.2	33094.4	26857.6	26071.5	23714.8	23521.4
65°	5757.3	5735.3	5950.7	6381.5	8884.4	22675.6	36680.5	33728.0	32500.1	26296.3	25840.4
67.5°	4730.7	4691.4	4903.6	5530.9	5721.2	14629.1	36759.1	41698.9	40493.1	29509.8	28522.5
70°	3889.6	3845.6	4043.6	4853.3	5287.2	7419.1	30937.4	46366.7	46302.3	33578.6	30547.5
71°	3487.1	3455.7	3693.1	4592.3	5194.5	6183.4	26711.3	46379.3	46572.7	34955.9	30428.0
72.5°	2839.4	2850.4	3101.9	4087.7	5125.3	5460.2	19631.8	44217.6	44626.3	36268.6	29341.6
75°	1886.6	1896.0	2226.2	3144.4	4969.7	5342.3	10789.9	37103.5	37855.0	35482.5	26774.2
77.5°	1267.2	1264.0	1488.9	2157.0	4329.8	5342.3	6326.5	27750.6	28575.9	28233.2	20641.2
80°	872.6	866.3	1025.1	1488.9	3278.0	5406.7	4891.1	19447.9	19697.8	15247.0	8389.2
82.5°	534.5	539.3	669.7	1051.8	2230.9	4865.9	4617.5	10604.4	10332.4	4276.3	2095.7
85°	306.6	305.0	427.6	712.2	1432.3	4106.5	4502.7	4564.0	4186.7	1287.6	757.8
87.5°	110.1	117.9	229.5	394.6	820.7	2859.8	3820.4	2374.0	2139.7	581.7	342.7
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°	10431.4	10431.4	10431.4	10431.4	10431.4	10431.4	10431.4	10431.4	10431.4	10431.4	10431.4
2.5°	10418.8	10428.3	10417.3	10354.4	10300.9	10214.5	10165.7	10098.1	10077.7	10068.2	10093.4
5°	10458.1	10461.3	10368.5	10203.4	10017.9	9799.4	9642.2	9448.8	9357.6	9318.3	9343.5
7.5°	10494.3	10480.2	10277.3	9961.3	9618.6	9238.1	8900.1	8590.4	8409.6	8335.7	8342.0
10°	10499.0	10439.3	10113.8	9624.9	9093.5	8535.4	8016.5	7538.6	7236.7	7040.2	7100.0
12.5°	10450.3	10349.7	9873.3	9189.4	8452.0	7691.1	6989.9	6273.0	5842.2	5642.6	5648.8
15°	10412.5	10230.2	9577.7	8676.9	7686.4	6678.6	5721.2	4878.5	4419.4	4215.0	4119.1
17.5°	10381.1	10101.3	9235.0	8099.9	6782.4	5504.2	4353.4	3601.9	3350.3	3290.6	3265.4
20°	10337.1	9964.5	8852.9	7431.7	5752.6	4189.9	3178.9	2807.9	2809.5	2878.7	2888.1
22.5°	10275.8	9808.8	8445.8	6681.8	4647.4	3051.6	2491.9	2385.0	2493.5	2625.5	2649.1
25°	10184.6	9624.9	7993.0	5853.2	3543.7	2345.7	2128.7	2124.0	2256.1	2394.4	2414.9
27.5°	10055.7	9384.3	7489.9	4963.4	2611.4	1993.5	1907.1	1940.1	2037.5	2138.2	2146.0
30°	9882.7	9104.5	6934.9	4024.8	2047.0	1775.0	1765.6	1795.4	1855.2	1925.9	1932.2
32.5°	9692.5	8819.9	6342.2	3116.1	1753.0	1657.1	1666.5	1680.7	1709.0	1737.3	1743.5
35°	9519.6	8529.1	5735.3	2367.7	1613.1	1580.0	1573.8	1570.6	1573.8	1564.3	1565.9
37.5°	9407.9	8288.5	5103.3	1885.0	1532.9	1512.4	1493.6	1470.0	1443.3	1427.5	1430.7
40°	9367.0	8109.3	4463.4	1628.8	1466.8	1452.7	1416.5	1366.2	1334.8	1325.3	1325.3
42.5°	9477.1	8016.5	3845.6	1499.9	1411.8	1388.2	1328.5	1270.3	1246.7	1245.2	1243.6
45°	9813.5	8054.3	3257.6	1429.1	1361.5	1315.9	1237.3	1188.6	1172.8	1176.0	1174.4
47.5°	10417.3	8291.7	2754.5	1381.9	1311.2	1251.5	1163.4	1124.1	1105.2	1105.2	1106.8
50°	11443.9	8846.7	2353.6	1342.6	1268.7	1191.7	1110.0	1061.2	1036.1	1034.5	1034.5
52.5°	12939.0	9840.3	2103.6	1309.6	1221.6	1138.3	1056.5	995.2	965.3	959.0	955.9
55°	14813.1	11264.7	2034.4	1287.6	1158.7	1080.1	992.0	930.7	897.7	883.6	882.0
57.5°	16908.8	12997.2	2171.2	1260.9	1094.2	1010.9	921.3	863.1	828.5	811.2	809.7
60°	19029.7	14888.5	2729.3	1223.2	1040.8	935.4	849.0	795.5	760.9	742.1	738.9
62.5°	21153.7	16882.1	3869.1	1220.0	1003.1	863.1	775.1	729.5	696.5	676.0	671.3
65°	23549.7	19064.3	5164.6	1303.3	990.5	797.1	699.6	663.5	635.2	616.3	614.7
67.5°	26301.0	21527.9	5040.4	1474.7	1032.9	737.4	628.9	600.6	580.1	564.4	562.8
70°	27591.8	21142.7	3133.4	1595.8	1092.7	679.2	561.3	540.8	525.1	514.1	509.4
71°	27050.9	20075.2	2627.1	1581.6	1086.4	654.0	534.5	518.8	503.1	493.7	488.9
72.5°	25576.2	18308.0	2191.6	1471.6	1015.6	608.4	500.0	484.2	470.1	459.1	455.9
75°	22950.7	16350.7	1754.6	1176.0	809.7	514.1	438.6	421.3	410.3	404.1	397.8
77.5°	16871.1	11668.7	1356.8	929.2	595.9	419.8	374.2	361.6	350.6	341.2	336.4
80°	6463.2	4520.0	913.4	693.3	437.1	331.7	301.9	295.6	284.6	278.3	278.3
82.5°	1740.4	1350.5	487.4	419.8	292.4	242.1	231.1	228.0	218.5	206.0	207.5
85°	704.3	595.9	273.6	231.1	179.2	143.1	155.6	157.2	146.2	130.5	132.1
87.5°	309.7	253.1	152.5	102.2	78.6	55.0	70.7	70.7	64.5	53.5	48.7
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)