

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: P457418

Luminaire Tested: **GLAN-SA8D-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8D-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 56787 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 493
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

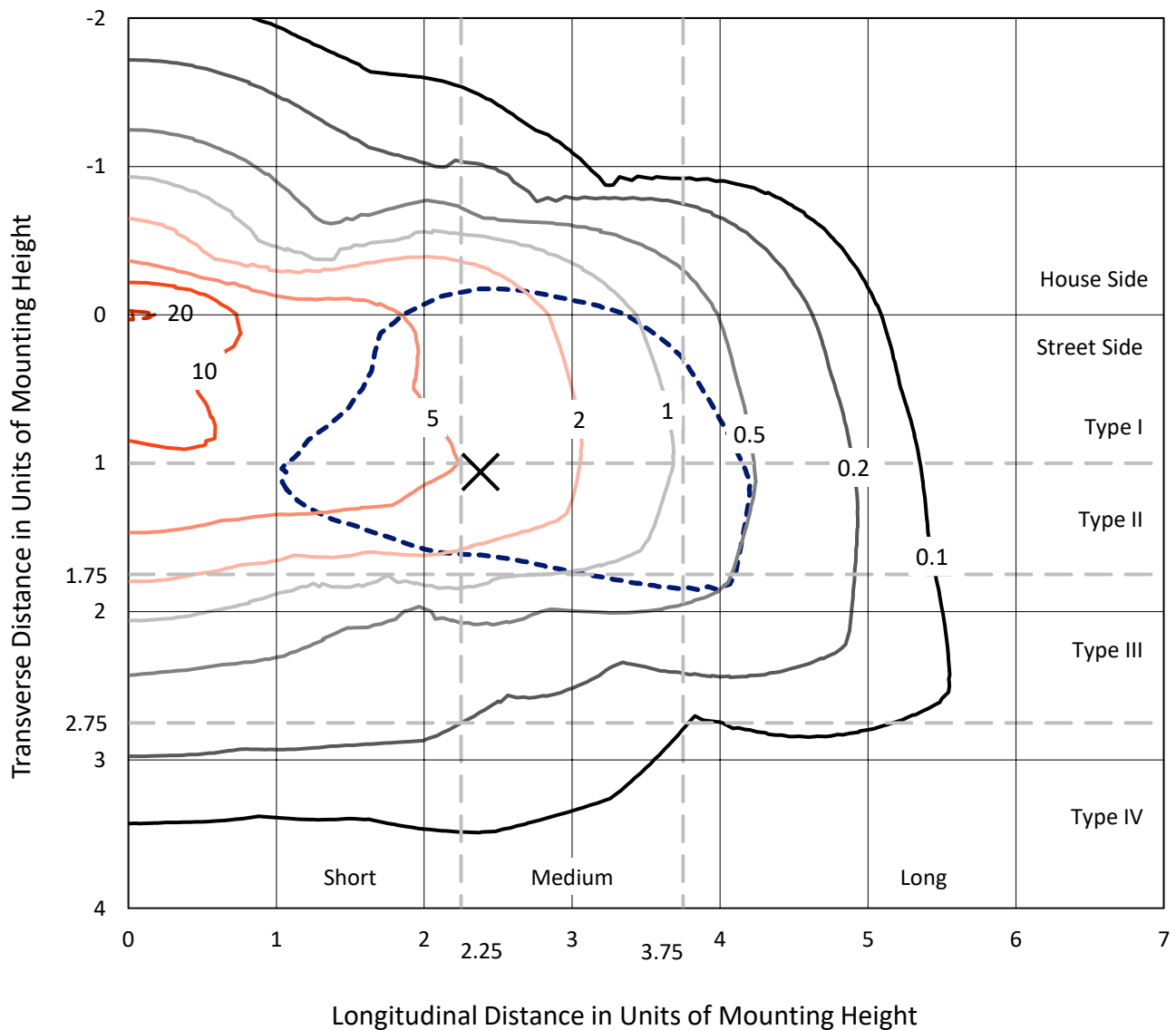


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

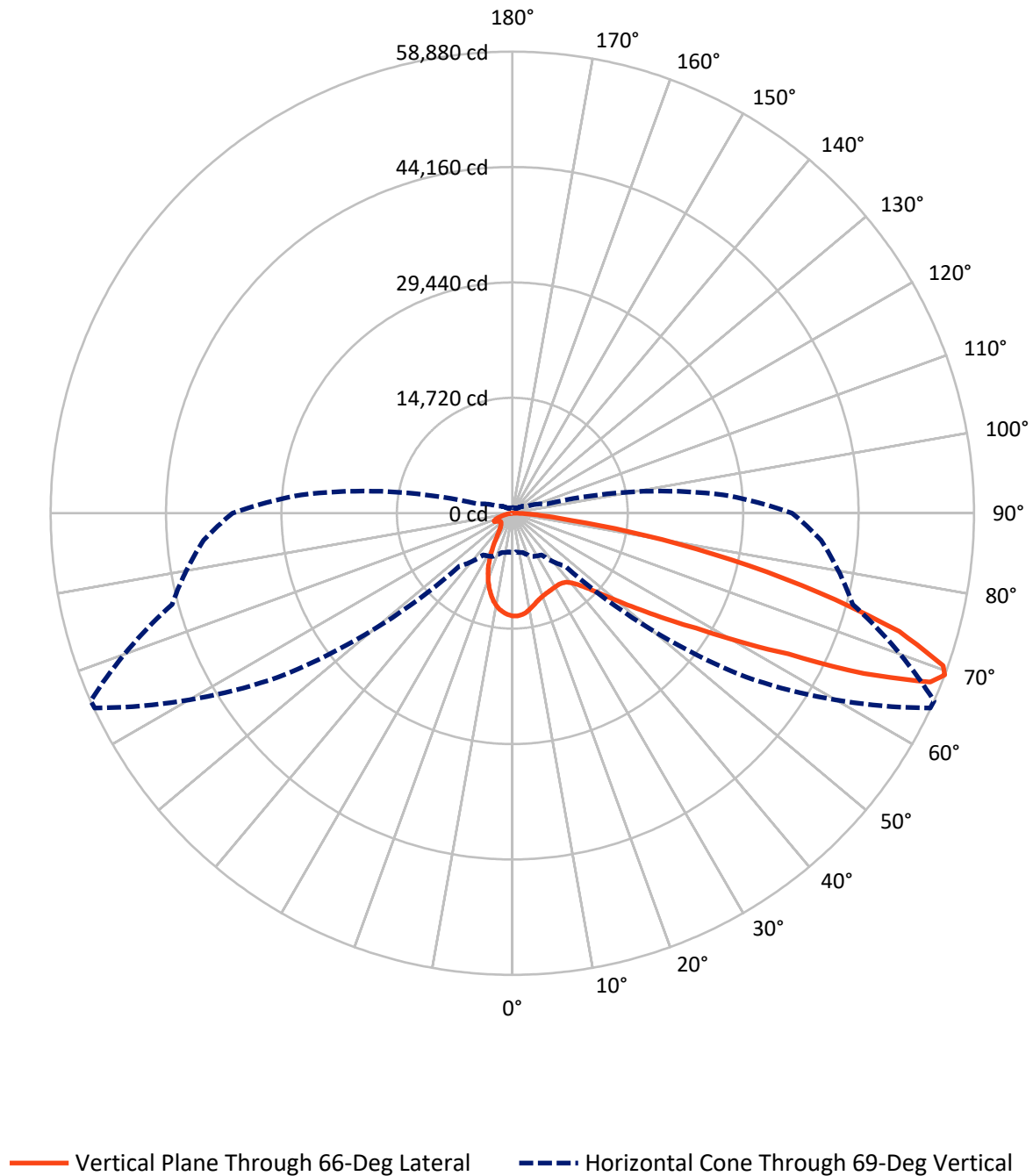


Based on 25 foot mounting height. Maximum calculated value = 21 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10679.5	0.0	10679.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	46107.5	0.0	46107.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	56787.0	0.0	56787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1138.8	2.0
10°-20°	2701.1	4.8
20°-30°	3677.2	6.5
30°-40°	4941.3	8.7
40°-50°	7378.2	13.0
50°-60°	11736.3	20.7
60°-70°	14435.0	25.4
70°-80°	9392.1	16.5
80°-90°	1386.9	2.4
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°	56787.0	100.0
0°-180°	56787.0	100.0

Coefficient of Utilization



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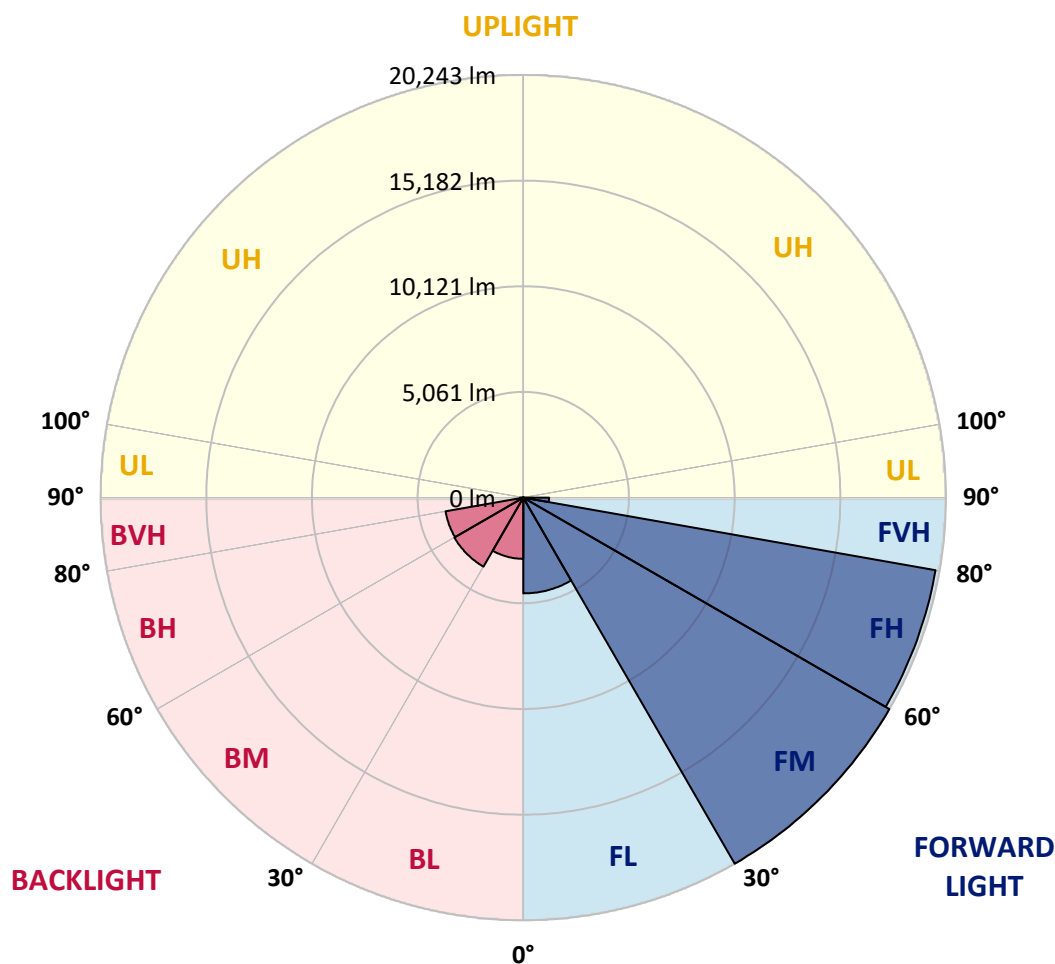
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4585.5	8.1			
FM	(30°-60°)	20242.9	35.6			
FH	(60°-80°)	20046.1	35.3			G5
FVH	(80°-90°)	1233.1	2.2			G5
BL	(0°-30°)	2931.6	5.2	B4/5000		
BM	(30°-60°)	3813.0	6.7	B3/5000		
BH	(60°-80°)	3781.0	6.7	B4/5000		G4/5000
BVH	(80°-90°)	153.9	0.3			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°	13113.7	13113.7	13113.7	13113.7	13113.7	13113.7	13113.7	13113.7	13113.7	13113.7	13113.7
2.5°	12654.6	12704.9	12761.5	12824.4	12943.9	13009.9	13057.1	13110.6	13116.8	13145.1	13123.1
5°	11720.6	11780.3	11865.2	11984.7	12164.0	12443.9	12733.2	12969.0	12997.3	13129.4	13167.2
7.5°	10940.7	10975.3	11044.4	11236.3	11491.0	11802.3	12223.7	12701.7	12770.9	13085.4	13195.5
10°	10305.4	10340.0	10421.8	10619.9	10871.5	11261.4	11723.7	12352.7	12409.3	12950.2	13201.7
12.5°	9830.6	9862.0	9950.1	10145.0	10434.4	10799.1	11308.6	11975.3	12057.1	12770.9	13142.0
15°	9468.9	9528.7	9601.0	9761.4	10066.4	10418.6	10912.4	11629.4	11695.4	12582.2	13101.1
17.5°	9314.8	9343.1	9393.4	9541.2	9764.5	10110.4	10607.3	11358.9	11437.5	12450.1	13091.7
20°	9321.1	9349.4	9358.8	9440.6	9601.0	9899.7	10390.3	11145.1	11239.4	12333.8	13107.4
22.5°	9534.9	9538.1	9503.5	9475.2	9538.1	9786.5	10236.2	10984.7	11094.8	12283.5	13120.0
25°	9865.1	9921.8	9871.4	9739.4	9623.0	9742.5	10176.5	10896.6	11000.4	12211.1	13104.3
27.5°	10399.8	10409.2	10368.3	10189.1	9887.2	9799.1	10151.3	10830.6	10918.6	12157.7	13025.6
30°	11116.8	11088.5	11050.7	10852.6	10377.7	10016.1	10204.8	10770.8	10862.0	12079.1	12931.3
32.5°	11843.2	11931.3	11896.7	11664.0	11047.6	10437.5	10377.7	10764.6	10840.0	12019.3	12827.5
35°	12613.7	12654.6	12818.1	12698.6	12066.5	11119.9	10701.7	10862.0	10921.8	12022.5	12755.2
37.5°	13217.5	13327.5	13711.2	13815.0	13220.6	12022.5	11226.8	11138.8	11163.9	12176.6	12783.5
40°	13947.1	14135.7	14629.5	15054.0	14664.1	13195.5	12119.9	11651.4	11682.8	12547.6	12969.0
42.5°	14871.6	15003.7	15667.3	16242.7	16179.8	14745.8	13201.7	12491.0	12506.8	13286.7	13487.9
45°	15953.4	16142.1	16887.4	17752.2	17900.0	16500.6	14764.7	13761.5	13752.1	14434.5	14456.5
47.5°	17337.1	17453.5	18192.5	19135.9	19733.4	18705.1	16661.0	15585.5	15484.9	16107.5	15928.3
50°	18610.8	18793.2	19352.9	20384.4	21871.9	21287.0	19154.8	17950.4	17714.5	18296.3	17994.4
52.5°	19145.4	19337.2	19808.9	21088.8	23705.3	24626.7	22321.6	20771.2	20378.1	20824.7	20714.6
55°	18217.7	18466.1	18906.4	20463.0	24510.3	28479.0	26592.2	24032.3	23746.2	23554.3	23585.8
57.5°	15723.9	15959.7	16554.1	18271.1	23548.0	31274.8	32689.9	28224.3	27611.1	26727.4	26878.4
60°	11969.0	12116.8	12425.0	14327.6	20695.7	32001.2	39614.7	33523.3	33133.3	29887.9	29994.8
62.5°	8500.3	8667.0	8880.8	9830.6	15151.5	29953.9	45036.3	40922.9	39529.8	33161.6	33057.8
65°	6902.8	6789.6	7047.4	7490.8	8890.3	23214.7	46256.4	51193.7	49275.4	37473.1	36032.8
67.5°	5676.3	5556.8	5811.5	6600.9	6761.3	13475.3	41860.1	57860.6	57477.0	42161.9	39054.9
69°	5025.3	4962.4	5185.7	6085.1	6490.8	9569.5	36466.8	58788.4	58879.6	44926.2	39520.3
70°	4528.5	4553.6	4770.6	5824.1	6368.2	7890.2	31167.8	57508.4	58282.0	46306.8	39017.2
72.5°	3333.5	3386.9	3688.8	4824.1	6251.8	6695.2	18547.9	50231.4	51599.4	46388.5	35693.2
75°	2330.3	2305.1	2572.4	3632.2	5905.9	6635.5	10893.5	38847.4	40397.7	40095.8	29991.7
77.5°	1525.2	1566.1	1779.9	2566.1	4968.7	6585.2	7100.9	27560.8	28567.1	26815.5	17739.7
80°	1075.5	1072.4	1191.9	1751.6	3685.7	6327.3	5814.7	17371.7	17117.0	10538.1	5261.2
82.5°	616.4	660.4	798.8	1232.8	2465.5	5569.4	5349.3	8308.5	7585.2	3003.3	1776.8
85°	342.8	358.5	474.9	745.3	1440.3	4195.1	4670.0	3780.0	3566.2	1254.8	764.2
87.5°	110.1	119.5	198.1	377.4	654.1	1981.2	2644.8	1745.3	1610.1	452.8	308.2
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°	13113.7	13113.7	13113.7	13113.7	13113.7	13113.7	13113.7	13113.7	13113.7	13113.7	13113.7
2.5°	13132.6	13170.3	13069.7	12972.2	12884.1	12761.5	12651.4	12560.2	12497.3	12487.9	12456.4
5°	13176.6	13179.7	12987.9	12730.0	12478.5	12201.7	11915.5	11711.1	11519.3	11412.4	11358.9
7.5°	13208.0	13179.7	12833.8	12415.6	11931.3	11428.1	10924.9	10522.4	10211.1	10088.4	10135.6
10°	13195.5	13107.4	12601.1	11931.3	11226.8	10475.2	9751.9	9185.9	8667.0	8399.7	8406.0
12.5°	13126.3	12981.6	12255.2	11387.2	10352.6	9346.3	8239.3	7475.1	6874.5	6519.1	6409.0
15°	13066.5	12814.9	11849.5	10648.2	9362.0	7924.8	6575.7	5632.3	5129.1	4849.2	4846.1
17.5°	13003.6	12654.6	11406.1	9865.1	8223.6	6374.5	4959.3	4239.2	4003.3	4031.6	3984.4
20°	12937.6	12465.9	10943.8	8994.0	6836.7	4754.9	3714.0	3421.5	3487.6	3616.5	3635.4
22.5°	12862.1	12264.6	10446.9	8034.9	5377.6	3578.7	3012.7	2968.7	3138.5	3339.7	3368.1
25°	12745.8	12013.0	9821.1	7031.7	4148.0	2883.8	2638.5	2669.9	2836.6	3006.4	3025.3
27.5°	12582.2	11701.7	9189.0	5780.1	3116.5	2474.9	2412.0	2452.9	2534.7	2638.5	2663.6
30°	12362.1	11349.5	8462.6	4698.3	2496.9	2270.5	2245.4	2267.4	2314.6	2358.6	2371.2
32.5°	12142.0	11009.8	7729.8	3597.6	2226.5	2135.3	2110.1	2110.1	2110.1	2116.4	2119.6
35°	11937.6	10689.1	6943.7	2802.0	2085.0	2028.4	1993.8	1956.0	1949.8	1927.7	1927.7
37.5°	11824.3	10396.6	6107.1	2346.0	1981.2	1940.3	1893.2	1830.3	1795.7	1798.8	1792.5
40°	11846.4	10204.8	5346.1	2088.1	1896.3	1852.3	1779.9	1707.6	1685.6	1685.6	1679.3
42.5°	12094.8	10141.9	4616.5	1952.9	1814.5	1764.2	1673.0	1607.0	1594.4	1591.3	1597.5
45°	12667.1	10296.0	3962.4	1864.8	1745.3	1669.9	1578.7	1518.9	1506.3	1506.3	1503.2
47.5°	13783.5	10796.0	3493.8	1808.2	1695.0	1597.5	1503.2	1443.5	1421.4	1415.1	1415.1
50°	15519.4	11880.9	3144.8	1757.9	1632.1	1531.5	1434.0	1364.8	1330.2	1327.1	1323.9
52.5°	17931.5	13572.8	3009.5	1720.2	1563.0	1462.3	1355.4	1289.4	1245.3	1235.9	1229.6
55°	20752.3	15934.6	3195.1	1691.9	1490.6	1383.7	1273.6	1204.4	1163.6	1144.7	1141.6
57.5°	24019.8	18771.1	3899.5	1654.1	1424.6	1298.8	1191.9	1122.7	1078.7	1056.6	1050.4
60°	26953.8	21686.3	5129.1	1632.1	1368.0	1207.6	1097.5	1034.6	993.7	971.7	968.6
62.5°	30177.2	24466.3	6597.7	1691.9	1342.8	1119.5	1009.5	952.9	918.3	896.3	896.3
65°	33620.7	27249.4	7569.5	1893.2	1380.6	1050.4	915.1	868.0	836.5	820.8	817.6
67.5°	35941.6	28211.7	6236.1	2100.7	1474.9	974.9	823.9	786.2	767.3	751.6	751.6
69°	35690.0	26994.7	4600.8	2154.2	1503.2	937.1	773.6	745.3	720.2	713.9	707.6
70°	34894.4	25607.9	3855.5	2119.6	1481.2	902.5	742.2	707.6	685.6	679.3	676.1
72.5°	31079.8	22208.4	2871.2	1842.8	1261.1	783.0	657.3	625.8	606.9	597.5	597.5
75°	25821.7	18151.6	2242.2	1465.5	987.5	660.4	562.9	537.8	522.0	515.7	512.6
77.5°	14472.2	10135.6	1610.1	1147.8	748.5	534.6	471.7	449.7	434.0	427.7	427.7
80°	4031.6	2896.3	946.6	757.9	509.5	405.7	374.2	358.5	336.5	320.8	330.2
82.5°	1518.9	1254.8	540.9	456.0	323.9	270.5	261.0	248.4	239.0	217.0	217.0
85°	739.0	610.1	345.9	242.1	179.3	141.5	135.2	128.9	122.6	106.9	110.1
87.5°	254.7	270.5	150.9	88.1	53.5	34.6	28.3	15.7	15.7	15.7	15.7
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)