

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: P529138

Luminaire Tested: **GLAN-SA4B-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4B-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18921 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

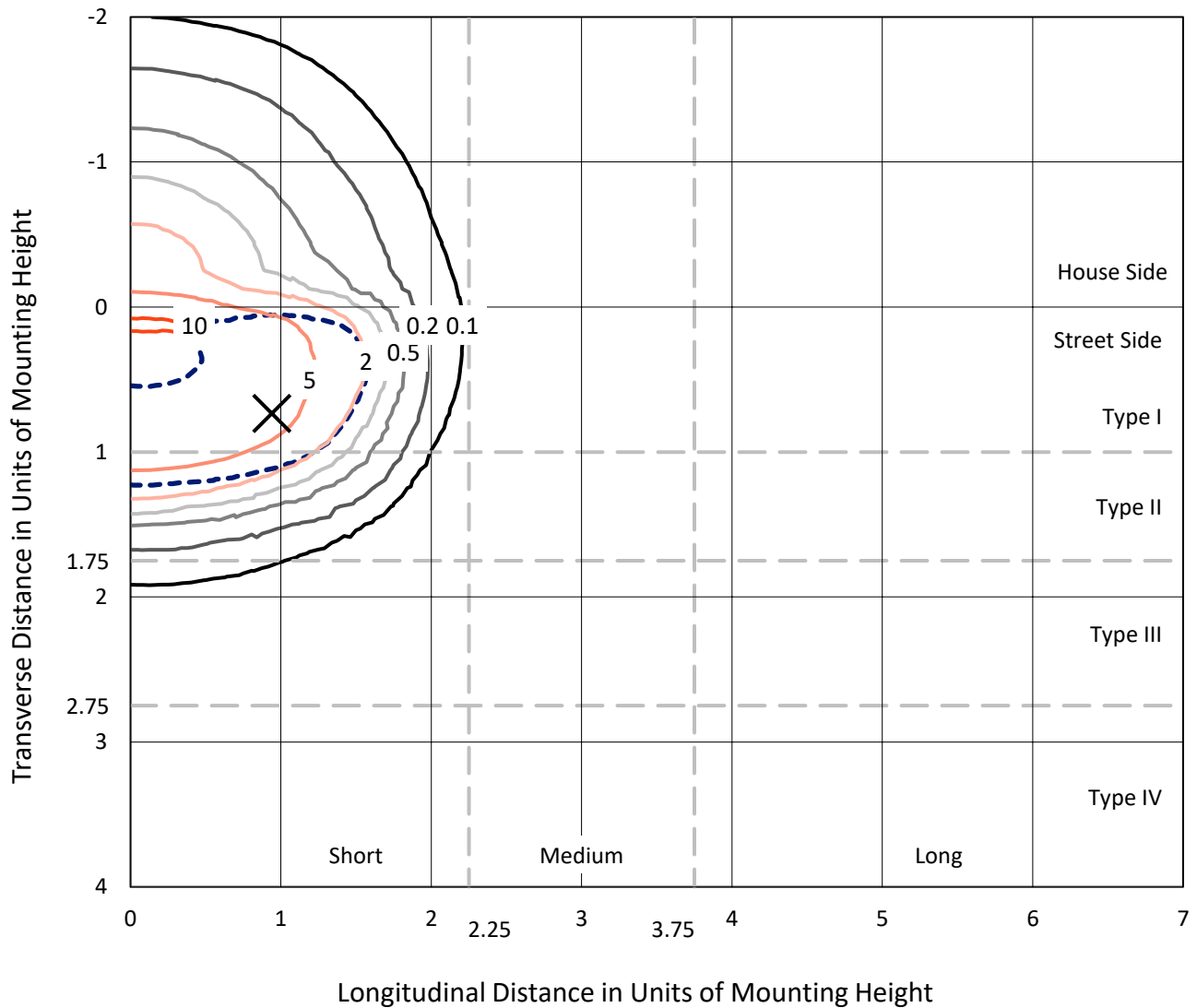
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

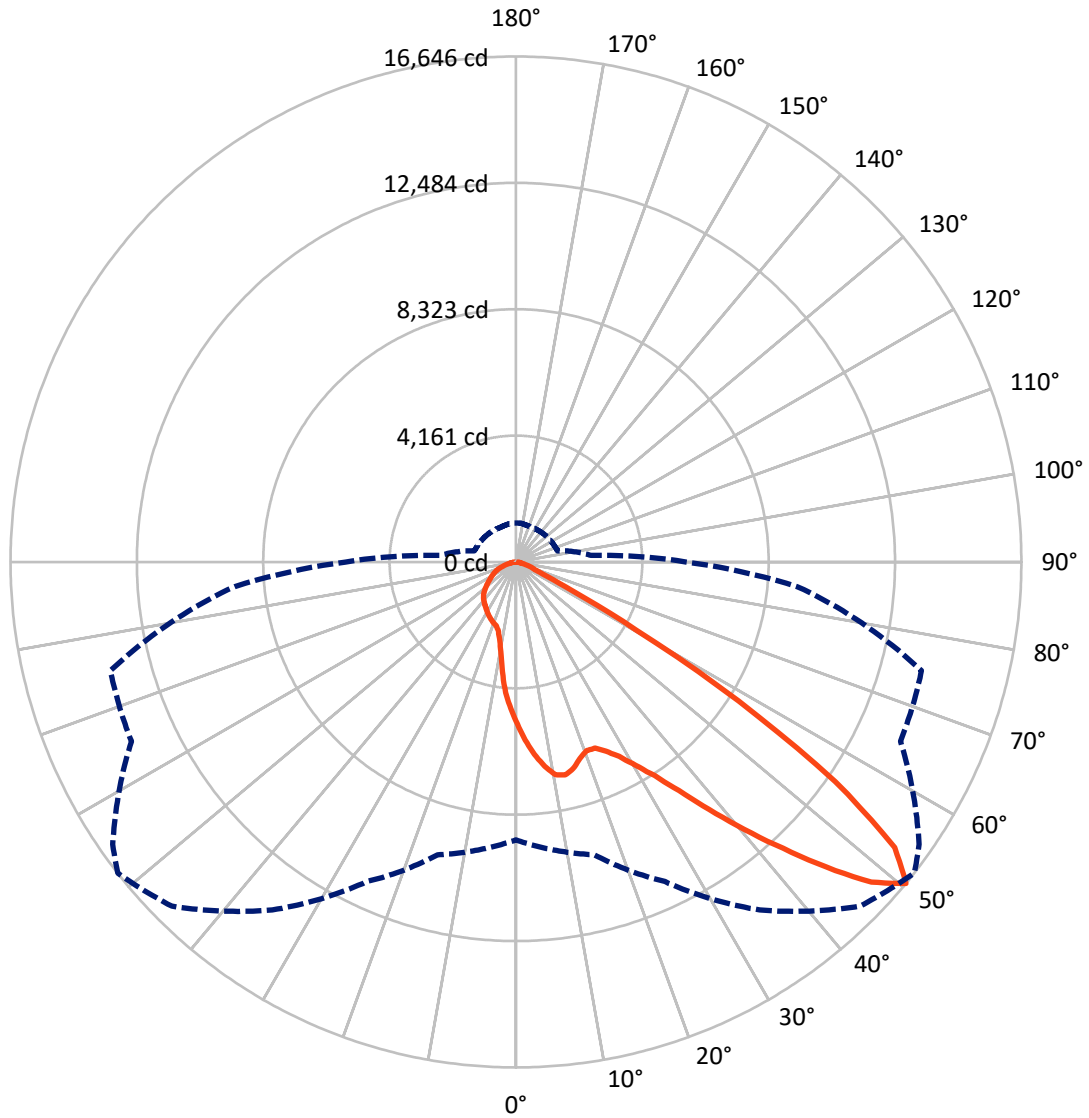
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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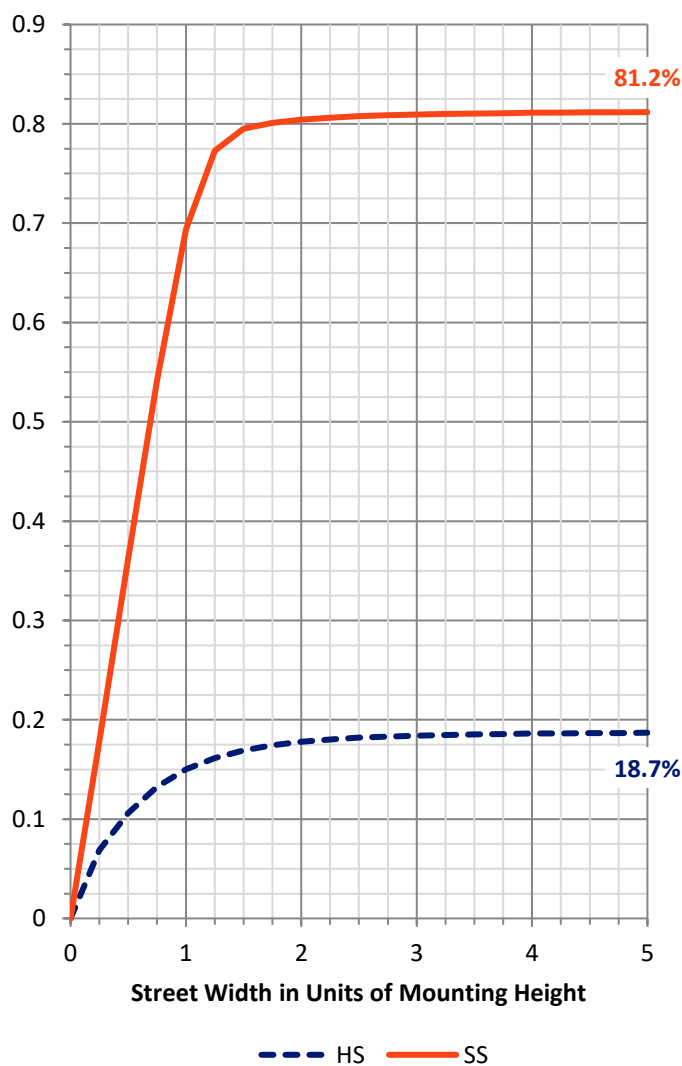
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3556.7	0.0	3556.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	15364.3	0.0	15364.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	18921.0	0.0	18921.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.6	2.6
10°-20°	1317.6	7.0
20°-30°	2219.4	11.7
30°-40°	3724.4	19.7
40°-50°	5697.4	30.1
50°-60°	4153.8	22.0
60°-70°	924.4	4.9
70°-80°	333.4	1.8
80°-90°	59.0	0.3
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°	18921.0	100.0
0°-180°	18921.0	100.0

Coefficient of Utilization



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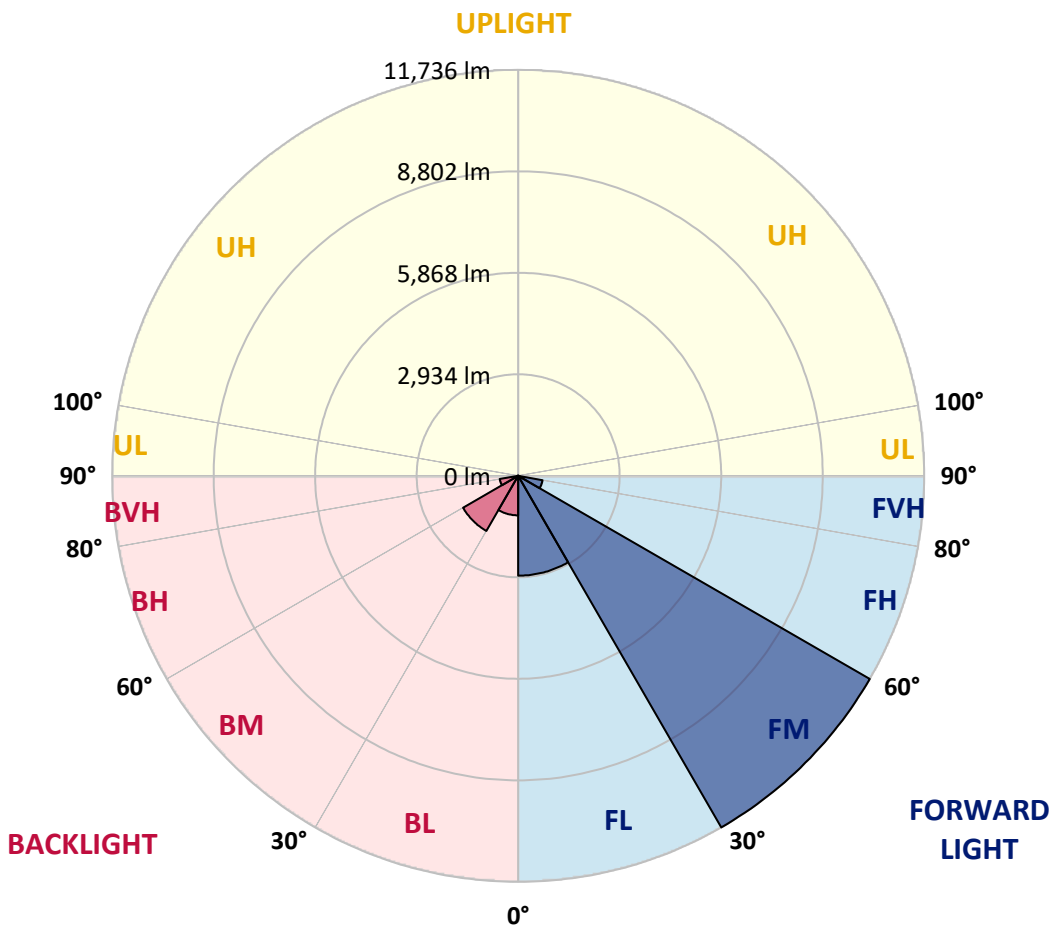
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2886.1	15.3			
FM (30°-60°)	11735.8	62.0			
FH (60°-80°)	716.0	3.8			G1/1800
FVH (80°-90°)	26.4	0.1			G1/100
BL (0°-30°)	1142.5	6.0	B3/2500		
BM (30°-60°)	1839.8	9.7	B2/2500		
BH (60°-80°)	541.9	2.9	B2/1000		G2/1000
BVH (80°-90°)	32.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5333.5	5333.5	5333.5	5333.5	5333.5	5333.5	5333.5	5333.5	5333.5	5333.5	5333.5
2.5°	6279.8	6159.0	6172.7	6086.0	5992.5	5965.1	5869.4	5778.2	5709.8	5563.8	5429.3
5°	6863.6	6827.1	6772.4	6703.9	6633.3	6460.0	6361.9	6247.9	5997.1	5771.3	5547.9
7.5°	6947.9	6941.1	6970.7	6970.7	6995.8	6929.7	6790.6	6710.8	6444.0	6076.9	5661.9
10°	6355.1	6375.6	6519.2	6706.2	6966.2	7146.3	7123.5	7103.0	6811.1	6309.5	5796.4
12.5°	5883.1	5837.5	5921.8	6081.4	6471.4	6906.9	7201.0	7203.3	7128.1	6681.1	5894.5
15°	5616.3	5648.2	5671.0	5746.2	6040.4	6544.3	7061.9	7214.7	7545.4	6943.4	6049.5
17.5°	5787.3	5680.1	5675.6	5693.8	5844.3	6222.8	6804.3	7066.5	7773.4	7280.9	6241.1
20°	6010.8	6008.5	5944.6	5921.8	5919.5	6257.0	6635.5	6991.3	7894.2	7718.7	6434.9
22.5°	6403.0	6403.0	6298.1	6247.9	6140.7	6416.6	6658.3	6900.1	8094.9	8019.7	6528.4
25°	7059.7	6952.5	6772.4	6649.2	6587.7	6685.7	6900.1	7116.7	8270.5	8338.9	6722.2
27.5°	7666.2	7497.5	7408.5	7196.5	7114.4	7057.4	7253.5	7472.4	8475.7	8836.0	6827.1
30°	8354.9	8325.2	8165.6	7892.0	7689.0	7584.1	7764.3	7980.9	8851.9	9344.5	7068.8
32.5°	9586.2	9317.1	9100.5	8765.3	8434.7	8211.2	8389.1	8532.7	9476.7	9875.8	7333.3
35°	10915.6	10828.9	10455.0	9850.7	9344.5	9143.8	9248.7	9355.9	10204.1	10687.6	7777.9
37.5°	12222.2	12103.6	11795.8	11287.3	10671.6	10263.4	10338.7	10464.1	11020.5	11782.1	8320.7
40°	13161.6	13015.7	12860.6	12785.4	12174.3	11615.6	11572.3	11604.2	12124.1	12808.2	8922.6
42.5°	13230.0	13410.2	13458.1	13761.3	13617.7	13159.4	12892.6	12899.4	13177.6	13822.9	9531.5
45°	13086.4	12919.9	13273.4	14101.1	14575.4	14789.7	14340.5	14283.5	13829.7	14411.2	9834.7
47.5°	11579.1	11624.7	12222.2	13531.0	14901.5	15859.2	15754.3	15565.0	14178.6	14390.7	9786.9
50°	9152.9	9428.9	9983.0	11613.3	13989.4	16027.9	16645.9	16208.1	13971.1	13825.2	9298.9
52.5°	6095.1	6209.1	6574.0	8678.7	11248.5	14326.8	15619.7	15720.1	13779.6	13084.1	8680.9
55°	2713.5	2704.4	3217.4	4533.1	7057.4	10901.9	12762.6	13373.7	13043.1	12329.3	8078.9
57.5°	1149.2	1188.0	1397.8	1958.7	3470.5	6578.5	8646.7	9182.6	10030.8	10124.3	6197.7
60°	777.6	782.1	839.1	980.5	1452.5	3089.7	4535.4	5178.5	5785.0	5744.0	3288.1
62.5°	611.1	627.1	670.4	727.4	861.9	1402.4	2029.4	2387.4	2426.2	2040.8	1247.3
65°	522.2	524.5	567.8	615.7	675.0	816.3	978.2	996.5	1007.9	971.4	916.7
67.5°	431.0	435.5	469.7	524.5	579.2	624.8	670.4	693.2	745.6	848.3	834.6
70°	342.0	348.9	378.5	424.1	474.3	501.7	558.7	579.2	627.1	706.9	738.8
72.5°	259.9	262.2	287.3	319.2	364.8	392.2	440.1	462.9	494.8	563.2	592.9
75°	187.0	193.8	212.1	228.0	234.9	253.1	298.7	323.8	369.4	399.0	401.3
77.5°	98.1	102.6	107.2	107.2	130.0	164.2	193.8	207.5	239.4	262.2	250.8
80°	38.8	41.0	52.4	70.7	91.2	118.6	139.1	145.9	173.3	187.0	193.8
82.5°	22.8	25.1	34.2	50.2	66.1	84.4	100.3	107.2	125.4	141.4	145.9
85°	11.4	13.7	20.5	31.9	43.3	52.4	50.2	47.9	47.9	45.6	47.9
87.5°	4.6	4.6	6.8	6.8	6.8	9.1	11.4	11.4	11.4	13.7	13.7
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°	5333.5	5333.5	5333.5	5333.5	5333.5	5333.5	5333.5	5333.5	5333.5	5333.5	5333.5
2.5°	5340.4	5249.1	5164.8	5009.7	4841.0	4793.1	4597.0	4526.3	4476.1	4416.9	4398.6
5°	5367.7	5246.9	4975.5	4663.1	4414.6	4095.3	3885.6	3659.8	3495.6	3454.6	3443.2
7.5°	5424.7	5217.2	4749.8	4277.8	3769.3	3336.0	3005.4	2827.5	2670.2	2661.1	2645.1
10°	5488.6	5128.3	4503.5	3762.4	3112.5	2711.2	2512.8	2435.3	2396.5	2387.4	2382.9
12.5°	5541.0	5110.1	4227.6	3260.8	2647.4	2405.7	2346.4	2339.5	2355.5	2360.1	2369.2
15°	5563.8	5037.1	3894.7	2811.6	2357.8	2268.9	2293.9	2321.3	2332.7	2362.3	2339.5
17.5°	5607.1	4943.6	3484.2	2455.8	2195.9	2211.8	2255.2	2287.1	2305.3	2325.9	2296.2
20°	5629.9	4859.2	3098.9	2243.8	2138.9	2168.5	2227.8	2252.9	2275.7	2284.8	2250.6
22.5°	5609.4	4685.9	2759.1	2072.8	2084.2	2122.9	2175.4	2202.7	2189.0	2152.6	2132.0
25°	5554.7	4441.9	2405.7	1963.3	2006.6	2075.0	2116.1	2095.6	2070.5	2049.9	2043.1
27.5°	5552.4	4143.2	2150.3	1863.0	1940.5	2034.0	2020.3	2002.1	2013.5	1997.5	1979.3
30°	5563.8	3853.6	1940.5	1806.0	1892.6	1938.2	1954.2	1935.9	1949.6	1920.0	1929.1
32.5°	5504.5	3570.9	1803.7	1739.8	1835.6	1833.3	1885.8	1899.5	1867.5	1806.0	1815.1
35°	5529.6	3342.9	1687.4	1710.2	1771.8	1771.8	1812.8	1796.8	1712.5	1676.0	1685.1
37.5°	5702.9	3119.4	1630.4	1669.1	1710.2	1728.4	1714.8	1646.3	1625.8	1625.8	1630.4
40°	5867.1	2927.8	1596.2	1660.0	1653.2	1664.6	1564.3	1571.1	1571.1	1573.4	1562.0
42.5°	6013.0	2797.9	1568.8	1605.3	1616.7	1557.4	1495.8	1489.0	1505.0	1502.7	1493.6
45°	6065.5	2690.7	1530.1	1543.7	1552.9	1454.8	1425.2	1411.5	1429.7	1436.6	1445.7
47.5°	5864.8	2601.8	1486.7	1459.4	1441.1	1377.3	1338.5	1313.4	1336.2	1375.0	1384.1
50°	5607.1	2485.5	1418.3	1365.9	1327.1	1299.7	1272.4	1247.3	1263.3	1290.6	1283.8
52.5°	5226.3	2303.1	1331.7	1276.9	1210.8	1217.7	1192.6	1178.9	1188.0	1188.0	1181.2
55°	4683.6	1892.6	1185.7	1147.0	1092.2	1110.5	1115.0	1096.8	1078.6	1094.5	1080.8
57.5°	3196.9	1336.2	1058.0	1058.0	1003.3	1028.4	1026.1	982.8	939.5	944.0	934.9
60°	1849.3	1064.9	975.9	966.8	909.8	930.3	934.9	905.3	839.1	843.7	834.6
62.5°	1051.2	909.8	852.8	839.1	827.7	846.0	846.0	807.2	750.2	754.8	745.6
65°	893.9	843.7	761.6	759.3	754.8	759.3	741.1	700.0	649.9	629.4	631.6
67.5°	811.8	779.8	700.0	679.5	665.8	663.6	629.4	590.6	567.8	549.5	547.3
70°	711.4	686.4	627.1	599.7	586.0	554.1	519.9	494.8	462.9	453.8	462.9
72.5°	563.2	560.9	538.1	508.5	478.9	453.8	424.1	389.9	360.3	353.4	337.5
75°	389.9	394.5	399.0	394.5	369.4	337.5	303.3	275.9	239.4	218.9	214.3
77.5°	255.4	262.2	269.1	259.9	244.0	214.3	191.5	157.3	130.0	114.0	111.7
80°	187.0	196.1	200.7	193.8	175.6	152.8	127.7	100.3	79.8	66.1	66.1
82.5°	143.7	152.8	157.3	145.9	127.7	109.5	91.2	70.7	54.7	43.3	41.0
85°	50.2	47.9	57.0	59.3	70.7	66.1	54.7	41.0	31.9	22.8	20.5
87.5°	13.7	13.7	16.0	16.0	13.7	11.4	11.4	11.4	9.1	6.8	6.8
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)