

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: P324811

Luminaire Tested: **GAN-SA7C-740-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40955 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

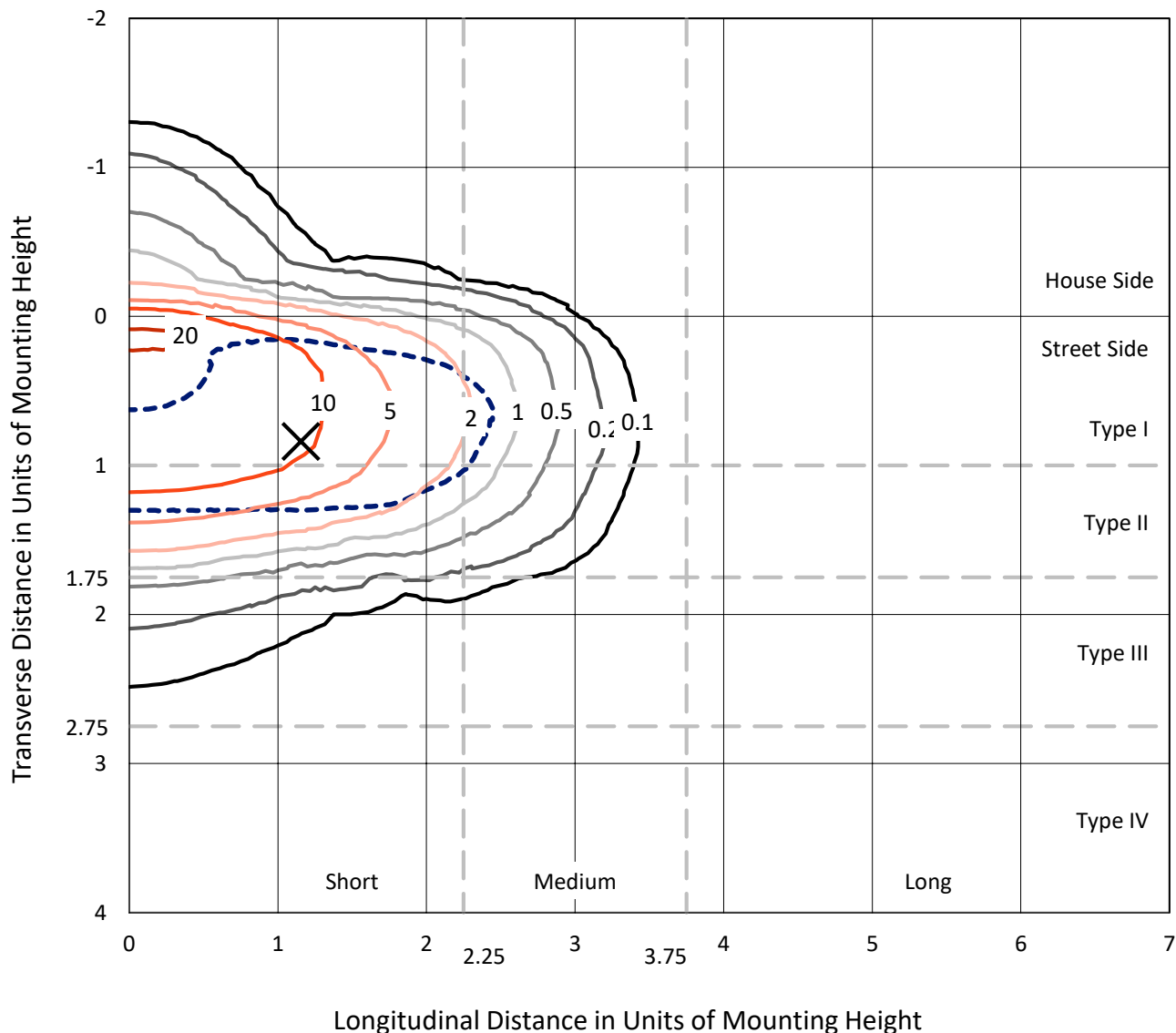
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324811
 CATALOG NUMBER: GAN-SA7C-740-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

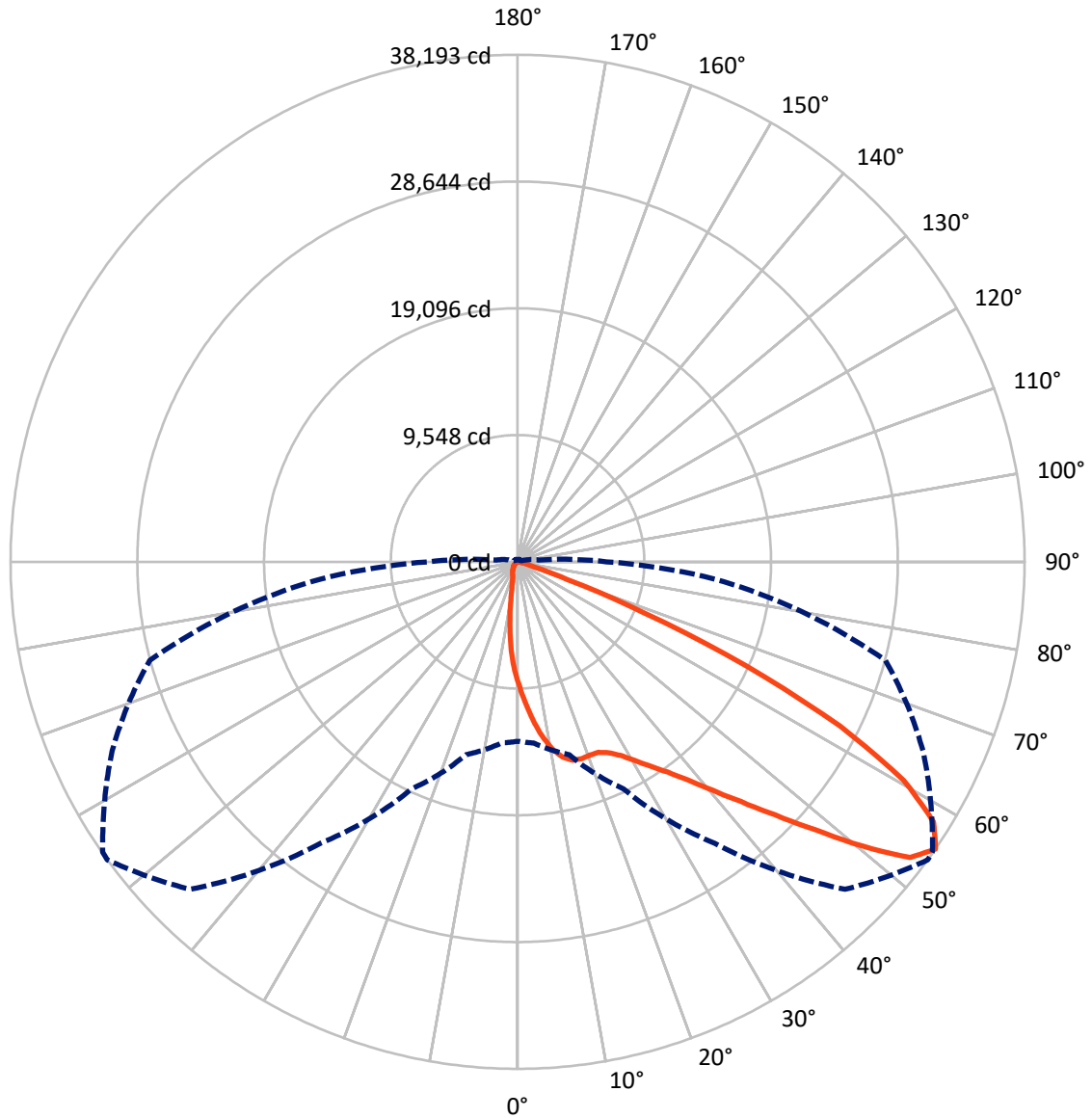
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.5 fc
 Type II - Short - N/A

REPORT NUMBER: P324811
CATALOG NUMBER: GAN-SA7C-740-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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 CATALOG NUMBER: GAN-SA7C-740-U-AFL-HSS

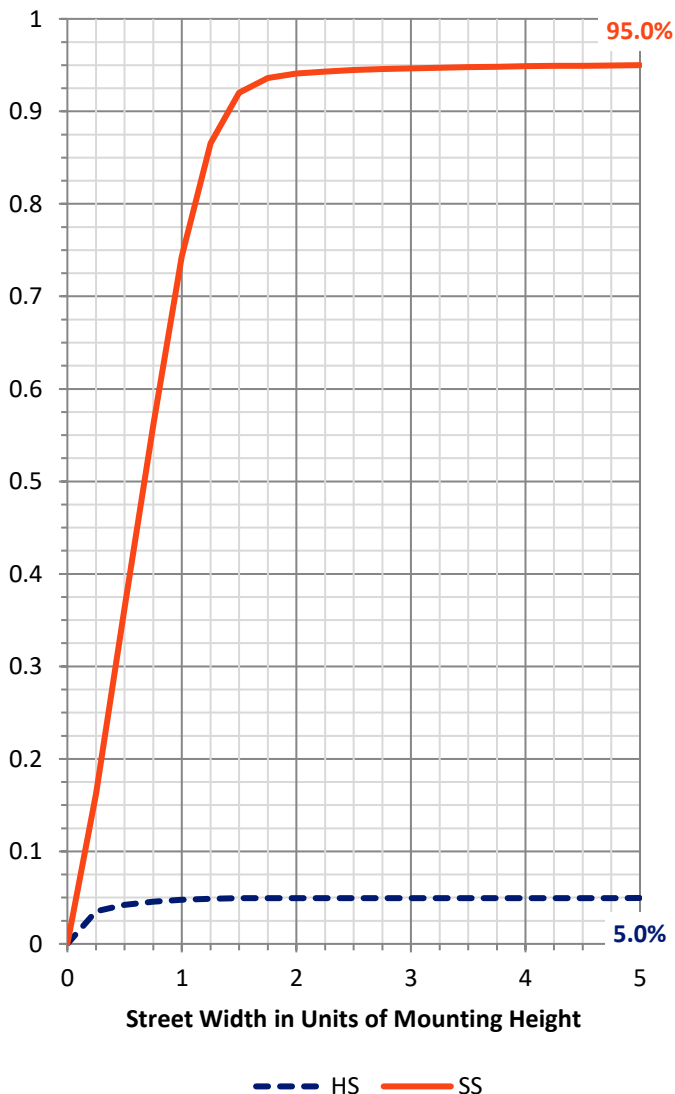
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2043.3	0.0	2043.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	38911.6	0.0	38911.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	40955.0	0.0	40955.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	844.7	2.1
10°-20°	2316.5	5.7
20°-30°	3955.1	9.7
30°-40°	6347.2	15.5
40°-50°	10142.8	24.8
50°-60°	10868.3	26.5
60°-70°	5580.1	13.6
70°-80°	845.2	2.1
80°-90°	55.0	0.1
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°	40955.0	100.0
0°-180°	40955.0	100.0

Coefficient of Utilization

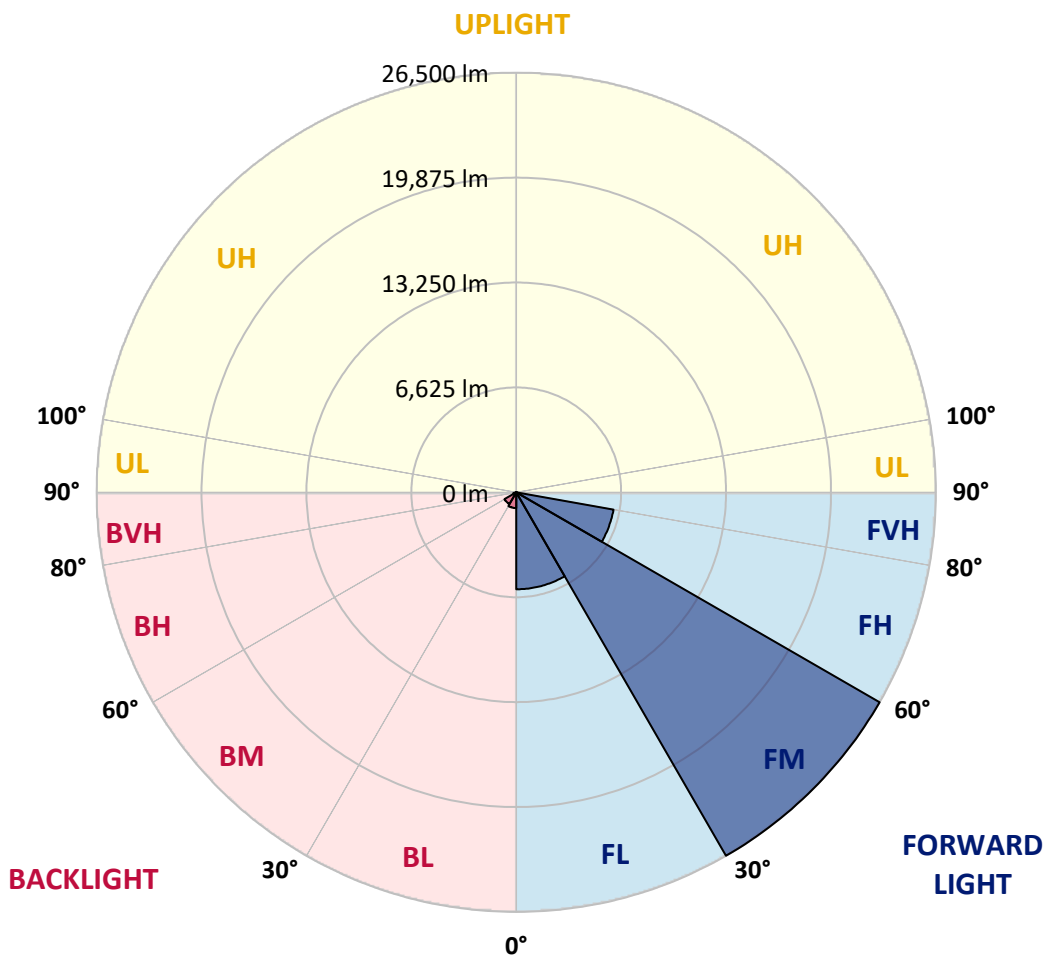


REPORT NUMBER: P324811
 CATALOG NUMBER: GAN-SA7C-740-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6122.1	14.9			
FM (30°-60°)	26499.7	64.7			
FH (60°-80°)	6237.1	15.2			G3/7500
FVH (80°-90°)	52.8	0.1			G1/100
BL (0°-30°)	994.2	2.4	B2/1000		
BM (30°-60°)	858.7	2.1	B1/1000		
BH (60°-80°)	188.3	0.5	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Short





REPORT NUMBER: P324811

CATALOG NUMBER: GAN-SA7C-740-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9172.3	9172.3	9172.3	9172.3	9172.3	9172.3	9172.3	9172.3	9172.3	9172.3	9172.3
2.5°	11510.4	11338.9	11344.2	11266.4	10981.6	10758.8	10527.1	10472.2	10111.4	9732.9	9368.6
5°	13500.2	13374.6	13344.5	13194.2	12798.0	12378.9	11929.6	11825.3	11119.6	10344.9	9582.6
7.5°	14522.5	14524.2	14499.5	14444.7	14197.0	13790.3	13242.0	13132.3	12171.9	11009.9	9805.5
10°	14225.3	14292.6	14430.5	14612.7	14801.9	14750.6	14338.5	14239.5	13196.0	11713.8	10053.1
12.5°	13532.0	13540.9	13694.7	13993.6	14538.4	15097.3	15104.4	15070.8	14174.0	12449.6	10325.4
15°	13187.1	13220.7	13277.3	13470.1	13986.6	14881.5	15521.8	15569.5	15070.8	13231.4	10615.5
17.5°	13413.5	13461.3	13413.5	13436.5	13735.4	14540.2	15594.3	15716.3	15854.3	14004.3	10889.6
20°	14027.3	14071.5	13986.6	13892.8	13951.2	14441.1	15543.0	15707.5	16468.0	14690.5	11119.6
22.5°	14855.0	14872.7	14743.6	14589.7	14547.2	14777.2	15585.4	15755.2	16959.7	15311.3	11264.6
25°	15765.8	15781.8	15620.8	15443.9	15343.1	15436.9	15933.9	16061.2	17393.0	15903.8	11347.7
27.5°	16758.1	16772.2	16570.6	16353.0	16236.3	16239.8	16508.7	16644.9	17854.6	16579.4	11414.9
30°	17806.9	17799.8	17614.1	17311.7	17163.1	17159.5	17336.4	17474.4	18523.2	17446.1	11506.9
32.5°	18984.8	18970.7	18707.1	18332.2	18164.1	18188.9	18346.3	18425.9	19352.7	18369.3	11671.4
35°	20535.9	20495.2	20097.3	19632.1	19322.6	19313.8	19446.4	19510.1	20410.3	19487.1	11945.5
37.5°	22548.7	22511.5	21972.1	21296.4	20861.4	20698.6	20856.1	20937.4	21919.0	20921.5	12385.9
40°	24533.1	24496.0	24175.8	23556.8	22886.5	22495.6	22619.4	22706.1	23802.6	22661.9	12941.3
42.5°	25902.0	25933.9	26045.3	26096.6	25468.7	24648.1	24704.7	24794.9	25781.8	24522.5	13576.2
45°	26262.8	26331.8	26961.5	28197.8	28433.0	27792.7	27200.2	27249.8	27792.7	26383.1	14211.2
47.5°	25178.7	25306.0	26521.1	28820.3	30811.8	31264.6	30143.3	30077.9	29722.3	27888.2	14662.2
50°	22714.9	22831.6	24405.8	27806.9	31533.5	34579.1	33670.0	33477.2	31415.0	28788.5	14821.4
52.5°	19149.3	19290.8	20569.5	24616.2	30173.4	36057.7	37009.2	36848.3	32656.6	28859.2	14847.9
55°	13523.2	13694.7	15047.8	18866.3	25863.1	34881.5	38192.5	38144.7	33687.7	28671.8	14904.5
57.5°	7599.9	7723.7	9182.9	12094.1	18942.4	30382.1	36956.2	37272.8	34310.3	28346.3	14989.4
60°	3374.6	3408.2	4163.4	6020.5	11089.5	23219.0	33417.1	33951.2	33776.1	27911.2	15132.7
62.5°	1871.2	1842.9	1842.9	2502.7	4819.6	14373.9	27249.8	28132.3	31496.3	27396.6	15139.7
65°	1466.2	1439.7	1363.6	1374.2	1835.9	6379.6	18869.8	20438.6	27166.6	25887.9	14630.4
67.5°	1243.4	1220.4	1144.3	1114.3	1140.8	2104.7	10367.9	11996.8	20613.7	21966.8	12672.5
70°	1050.6	1034.7	995.8	958.6	891.4	1040.0	3967.1	5074.3	12702.5	14612.7	8650.5
72.5°	845.4	838.3	852.5	820.7	739.3	693.3	1356.6	1643.1	5705.7	6521.1	3563.9
75°	728.7	725.2	732.2	700.4	608.4	482.8	689.8	753.4	1609.5	1595.3	721.6
77.5°	474.0	479.3	606.7	592.5	523.5	321.9	357.3	385.6	488.2	366.1	219.3
80°	302.4	298.9	307.7	491.7	470.5	245.8	178.6	187.5	235.2	180.4	106.1
82.5°	183.9	180.4	201.6	229.9	237.0	171.6	109.7	111.4	146.8	116.7	56.6
85°	15.9	21.2	122.0	113.2	81.4	53.1	53.1	56.6	77.8	69.0	31.8
87.5°	0.0	0.0	21.2	31.8	17.7	19.5	19.5	21.2	30.1	30.1	15.9
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°	9172.3	9172.3	9172.3	9172.3	9172.3	9172.3	9172.3	9172.3	9172.3	9172.3	9172.3
2.5°	9179.4	8995.4	8624.0	8266.7	7964.3	7672.5	7339.9	7011.0	6857.1	6795.2	6731.5
5°	9195.3	8816.8	8050.9	7279.8	6480.4	5760.5	5146.8	4517.2	4202.3	4064.4	4000.7
7.5°	9216.5	8639.9	7401.8	6107.2	4819.6	3843.3	2990.8	2442.5	2205.5	2168.4	2076.4
10°	9220.0	8425.9	6648.4	4812.5	3231.3	2316.9	1782.8	1499.8	1395.5	1377.8	1347.7
12.5°	9227.1	8173.0	5811.8	3563.9	2154.2	1549.3	1289.4	1195.6	1167.3	1165.5	1165.5
15°	9248.3	7907.7	4943.4	2568.1	1547.6	1227.5	1131.9	1094.8	1084.2	1089.5	1087.7
17.5°	9248.3	7594.6	4090.9	1913.7	1250.4	1103.6	1050.6	1025.8	1022.3	1027.6	1029.4
20°	9181.1	7214.4	3309.2	1489.2	1109.0	1024.1	976.3	953.3	944.5	948.0	949.8
22.5°	9020.2	6747.4	2672.4	1232.8	1015.2	951.5	900.2	864.9	850.7	852.5	852.5
25°	8769.0	6193.9	2090.6	1066.5	939.2	873.7	813.6	772.9	764.1	762.3	765.8
27.5°	8447.1	5581.9	1664.3	939.2	849.0	787.1	726.9	693.3	686.2	688.0	689.8
30°	8130.5	4946.9	1312.3	831.3	748.1	689.8	643.8	627.9	627.9	633.2	634.9
32.5°	7840.5	4336.8	1038.2	737.5	657.9	604.9	578.4	576.6	585.4	589.0	590.7
35°	7591.1	3772.6	859.6	665.0	587.2	541.2	532.4	539.4	550.1	557.1	558.9
37.5°	7414.2	3268.5	751.7	604.9	532.4	495.2	493.5	507.6	521.8	537.7	541.2
40°	7339.9	2842.2	677.4	551.8	488.2	459.9	454.5	474.0	500.5	523.5	527.1
42.5°	7278.0	2493.8	613.7	500.5	452.8	412.1	410.3	435.1	466.9	489.9	495.2
45°	7225.0	2214.4	555.4	445.7	406.8	353.7	359.0	390.9	415.6	440.4	445.7
47.5°	7115.3	1984.4	491.7	387.3	336.0	302.4	313.1	341.4	360.8	397.9	403.3
50°	6919.0	1797.0	426.2	316.6	274.1	261.8	277.7	297.1	321.9	353.7	357.3
52.5°	6786.4	1655.5	369.7	265.3	226.4	229.9	245.8	252.9	267.1	279.4	275.9
55°	6710.3	1577.6	323.7	229.9	192.8	203.4	206.9	198.1	191.0	178.6	173.3
57.5°	6701.5	1506.9	288.3	199.9	169.8	175.1	162.7	132.6	107.9	93.7	90.2
60°	6687.3	1420.2	260.0	168.0	150.3	143.3	116.7	72.5	51.3	47.8	47.8
62.5°	6533.4	1285.8	238.8	141.5	127.3	107.9	67.2	33.6	28.3	30.1	30.1
65°	6043.5	1098.3	217.5	115.0	100.8	77.8	33.6	19.5	10.6	12.4	12.4
67.5°	5138.0	875.5	194.6	88.4	76.1	49.5	19.5	8.8	0.0	0.0	0.0
70°	3440.0	543.0	164.5	61.9	49.5	30.1	14.1	1.8	0.0	0.0	0.0
72.5°	1319.4	293.6	132.6	37.1	31.8	21.2	8.8	0.0	0.0	0.0	0.0
75°	297.1	192.8	92.0	26.5	23.0	14.1	3.5	0.0	0.0	0.0	0.0
77.5°	113.2	139.7	53.1	17.7	15.9	8.8	0.0	0.0	0.0	0.0	0.0
80°	54.8	83.1	24.8	10.6	8.8	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	28.3	31.8	10.6	5.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.9	15.9	5.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.8	5.3	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)