

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: P324821

Luminaire Tested: **GAN-SA7D-740-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324821  
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-SA7D-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1200mA 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: 44928 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

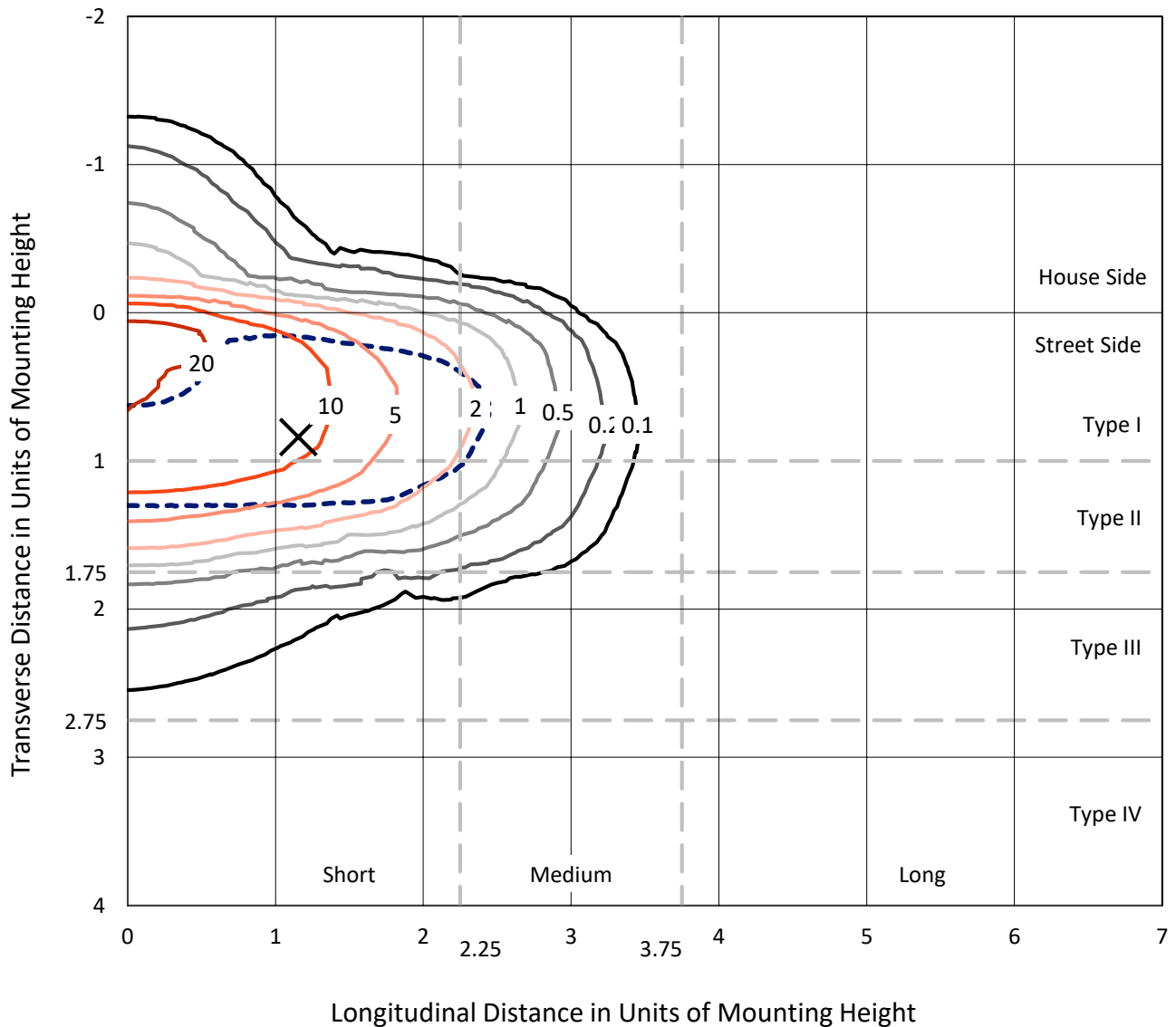
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

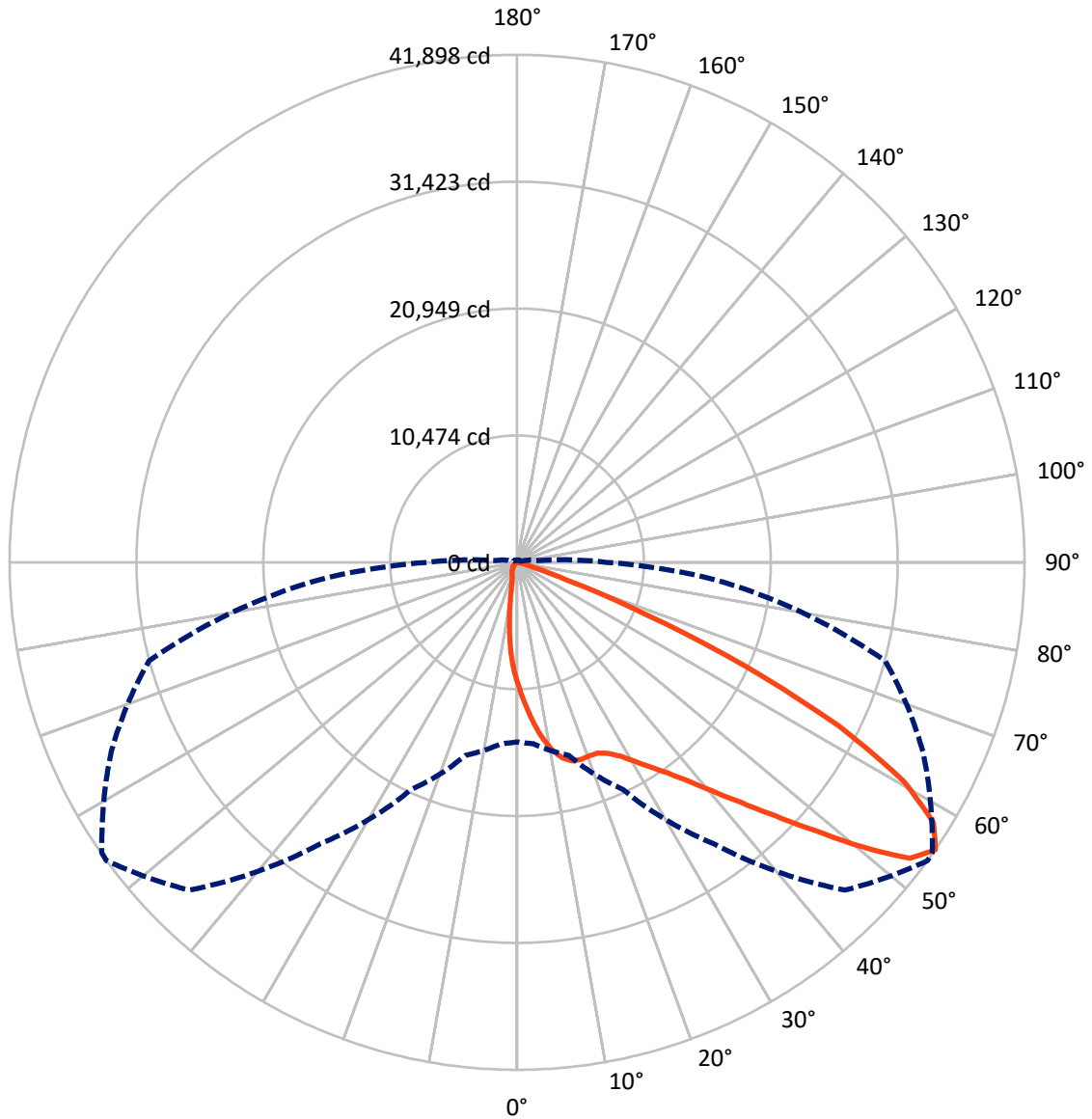
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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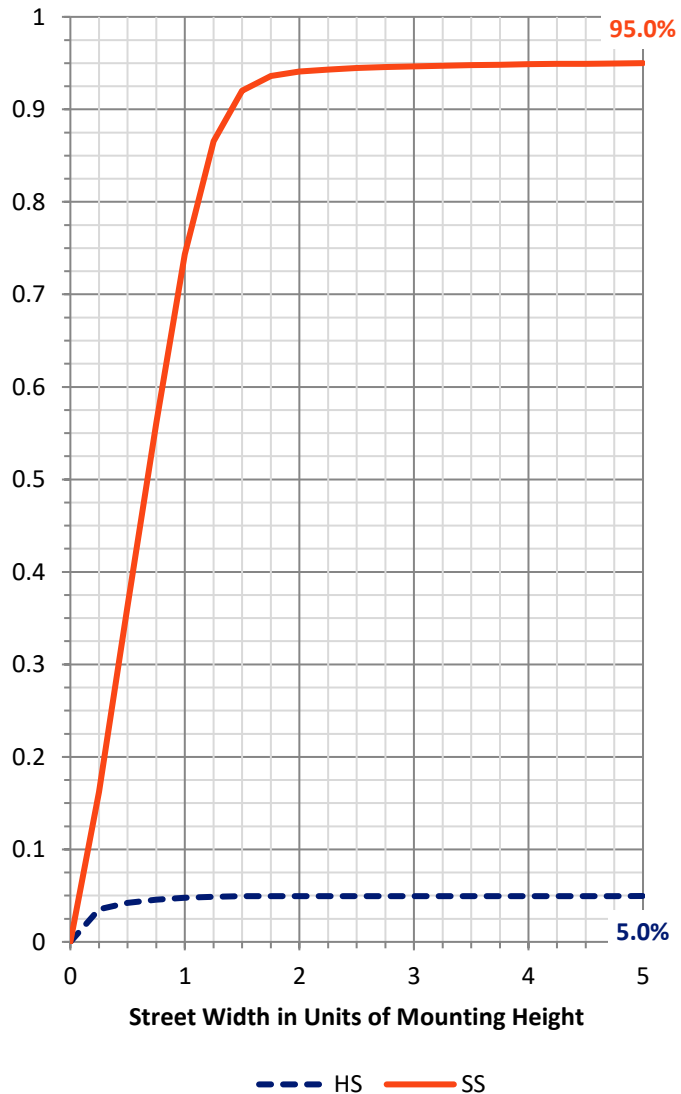
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2241.6	0.0	2241.6
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	42686.4	0.0	42686.4
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	44928.0	0.0	44928.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	926.6	2.1
10°-20°	2541.2	5.7
20°-30°	4338.7	9.7
30°-40°	6962.9	15.5
40°-50°	11126.8	24.8
50°-60°	11922.6	26.5
60°-70°	6121.4	13.6
70°-80°	927.3	2.1
80°-90°	60.4	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°	44928.0	100.0
0°-180°	44928.0	100.0

**Coefficient of Utilization**



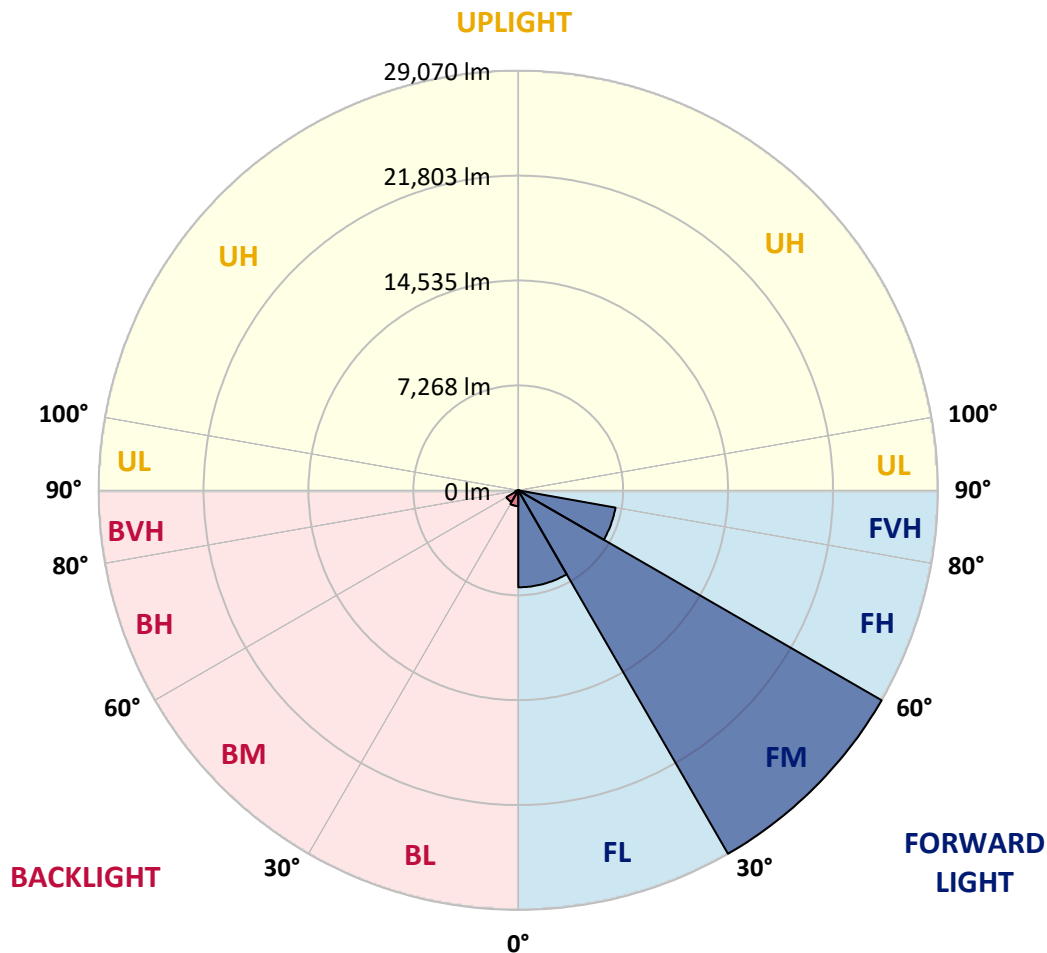
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6716.0	14.9			
FM (30°-60°)	29070.4	64.7			
FH (60°-80°)	6842.1	15.2			G3/7500
FVH (80°-90°)	58.0	0.1			G1/100
BL (0°-30°)	1090.6	2.4	B3/2500		
BM (30°-60°)	942.0	2.1	B1/1000		
BH (60°-80°)	206.6	0.5	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10062.1	10062.1	10062.1	10062.1	10062.1	10062.1	10062.1	10062.1	10062.1	10062.1	10062.1
2.5°	12627.1	12438.9	12444.7	12359.3	12046.9	11802.5	11548.3	11488.1	11092.3	10677.1	10277.4
5°	14809.8	14672.1	14639.1	14474.2	14039.6	13579.7	13086.9	12972.4	12198.3	11348.4	10512.2
7.5°	15931.3	15933.2	15906.1	15845.9	15574.3	15128.0	14526.6	14406.3	13352.7	12078.0	10756.7
10°	15605.3	15679.1	15830.4	16030.2	16237.8	16181.6	15729.5	15620.8	14476.1	12850.2	11028.3
12.5°	14844.8	14854.5	15023.3	15351.2	15948.7	16561.9	16569.6	16532.8	15549.1	13657.3	11327.1
15°	14466.4	14503.3	14565.4	14776.8	15343.4	16325.2	17027.5	17079.9	16532.8	14514.9	11645.3
17.5°	14714.8	14767.1	14714.8	14740.0	15067.9	15950.7	17107.1	17240.9	17392.3	15362.8	11946.0
20°	15388.0	15436.5	15343.4	15240.6	15304.6	15842.0	17050.8	17231.2	18065.5	16115.6	12198.3
22.5°	16296.1	16315.5	16173.8	16005.0	15958.4	16210.7	17097.4	17283.6	18604.9	16796.6	12357.4
25°	17295.3	17312.7	17136.2	16942.1	16831.6	16934.4	17479.6	17619.3	19080.3	17446.6	12448.6
27.5°	18383.7	18399.3	18178.1	17939.4	17811.4	17815.3	18110.2	18259.6	19586.7	18187.8	12522.3
30°	19534.3	19526.5	19322.8	18991.0	18828.1	18824.2	19018.2	19169.5	20320.1	19138.5	12623.2
32.5°	20826.5	20811.0	20521.9	20110.6	19926.2	19953.4	20126.1	20213.4	21230.1	20151.3	12803.6
35°	22528.1	22483.5	22046.9	21536.6	21197.1	21187.4	21332.9	21402.8	22390.3	21377.5	13104.4
37.5°	24736.1	24695.3	24103.6	23362.4	22885.1	22706.6	22879.3	22968.5	24045.4	22951.1	13587.5
40°	26913.0	26872.3	26521.1	25842.0	25106.7	24677.9	24813.7	24908.8	26111.7	24860.3	14196.7
42.5°	28414.8	28449.7	28571.9	28628.2	27939.4	27039.1	27101.2	27200.2	28282.8	26901.4	14893.3
45°	28810.6	28886.2	29577.0	30933.2	31191.2	30488.9	29838.9	29893.2	30488.9	28942.5	15589.8
47.5°	27621.2	27760.9	29093.9	31616.2	33800.9	34297.6	33067.5	32995.7	32605.7	30593.7	16084.6
50°	24918.5	25046.5	26773.3	30504.4	34592.5	37933.6	36936.3	36724.8	34462.5	31581.2	16259.2
52.5°	21006.9	21162.2	22565.0	27004.2	33100.4	39555.6	40599.5	40422.9	35824.5	31658.8	16288.3
55°	14835.1	15023.3	16507.5	20696.5	28372.1	38265.4	41897.5	41845.1	36955.7	31453.2	16350.4
57.5°	8337.2	8473.0	10073.7	13267.3	20779.9	33329.4	40541.3	40888.6	37638.7	31096.2	16443.5
60°	3702.0	3738.8	4567.3	6604.6	12165.3	25471.4	36658.8	37244.8	37052.7	30618.9	16600.7
62.5°	2052.8	2021.7	2021.7	2745.4	5287.1	15768.3	29893.2	30861.4	34551.7	30054.3	16608.4
65°	1608.5	1579.4	1495.9	1507.6	2014.0	6998.4	20700.4	22421.4	29802.0	28399.2	16049.6
67.5°	1364.0	1338.8	1255.3	1222.3	1251.5	2308.9	11373.7	13160.6	22613.5	24097.7	13901.8
70°	1152.5	1135.0	1092.4	1051.6	977.9	1140.9	4352.0	5566.5	13934.8	16030.2	9489.7
72.5°	927.4	919.7	935.2	900.3	811.0	760.6	1488.2	1802.5	6259.2	7153.7	3909.6
75°	799.4	795.5	803.3	768.3	667.4	529.7	756.7	826.5	1765.6	1750.1	791.6
77.5°	520.0	525.8	665.5	650.0	574.3	353.1	391.9	423.0	535.5	401.6	240.6
80°	331.8	327.9	337.6	539.4	516.1	269.7	196.0	205.7	258.1	197.9	116.4
82.5°	201.8	197.9	221.2	252.2	260.0	188.2	120.3	122.2	161.0	128.1	62.1
85°	17.5	23.3	133.9	124.2	89.3	58.2	58.2	62.1	85.4	75.7	34.9
87.5°	0.0	0.0	23.3	34.9	19.4	21.3	21.3	23.3	33.0	33.0	17.5
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°	10062.1	10062.1	10062.1	10062.1	10062.1	10062.1	10062.1	10062.1	10062.1	10062.1	10062.1
2.5°	10069.8	9868.0	9460.6	9068.7	8736.9	8416.7	8052.0	7691.1	7522.3	7454.4	7384.5
5°	10087.3	9672.1	8832.0	7986.0	7109.0	6319.4	5646.1	4955.4	4610.0	4458.7	4388.8
7.5°	10110.6	9478.1	8119.9	6699.6	5287.1	4216.1	3280.9	2679.5	2419.5	2378.7	2277.8
10°	10114.5	9243.3	7293.4	5279.4	3544.8	2541.7	1955.8	1645.3	1530.8	1511.4	1478.5
12.5°	10122.2	8965.8	6375.6	3909.6	2363.2	1699.6	1414.4	1311.6	1280.6	1278.6	1278.6
15°	10145.5	8674.8	5423.0	2817.2	1697.7	1346.5	1241.8	1201.0	1189.4	1195.2	1193.2
17.5°	10145.5	8331.4	4487.8	2099.3	1371.7	1210.7	1152.5	1125.3	1121.5	1127.3	1129.2
20°	10071.8	7914.2	3630.2	1633.7	1216.5	1123.4	1071.0	1045.8	1036.1	1040.0	1041.9
22.5°	9895.2	7402.0	2931.7	1352.3	1113.7	1043.8	987.6	948.8	933.3	935.2	935.2
25°	9619.7	6794.7	2293.4	1170.0	1030.3	958.5	892.5	847.9	838.2	836.2	840.1
27.5°	9266.6	6123.4	1825.8	1030.3	931.3	863.4	797.4	760.6	752.8	754.8	756.7
30°	8919.3	5426.8	1439.7	911.9	820.7	756.7	706.2	688.8	688.8	694.6	696.5
32.5°	8601.1	4757.5	1138.9	809.1	721.8	663.6	634.5	632.5	642.2	646.1	648.0
35°	8327.5	4138.5	943.0	729.5	644.2	593.7	584.0	591.8	603.4	611.2	613.1
37.5°	8133.5	3585.6	824.6	663.6	584.0	543.3	541.3	556.8	572.4	589.8	593.7
40°	8052.0	3118.0	743.1	605.4	535.5	504.5	498.6	520.0	549.1	574.3	578.2
42.5°	7984.1	2735.7	673.3	549.1	496.7	452.1	450.1	477.3	512.2	537.4	543.3
45°	7925.9	2429.2	609.2	488.9	446.3	388.0	393.9	428.8	456.0	483.1	488.9
47.5°	7805.6	2176.9	539.4	424.9	368.6	331.8	343.4	374.5	395.8	436.6	442.4
50°	7590.2	1971.3	467.6	347.3	300.7	287.2	304.6	326.0	353.1	388.0	391.9
52.5°	7444.7	1816.1	405.5	291.0	248.4	252.2	269.7	277.5	293.0	306.6	302.7
55°	7361.3	1730.7	355.1	252.2	211.5	223.1	227.0	217.3	209.5	196.0	190.1
57.5°	7351.6	1653.1	316.3	219.2	186.3	192.1	178.5	145.5	118.4	102.8	99.0
60°	7336.0	1558.0	285.2	184.3	164.9	157.2	128.1	79.5	56.3	52.4	52.4
62.5°	7167.2	1410.6	261.9	155.2	139.7	118.4	73.7	36.9	31.0	33.0	33.0
65°	6629.8	1204.9	238.6	126.1	110.6	85.4	36.9	21.3	11.6	13.6	13.6
67.5°	5636.4	960.4	213.4	97.0	83.4	54.3	21.3	9.7	0.0	0.0	0.0
70°	3773.8	595.7	180.4	67.9	54.3	33.0	15.5	1.9	0.0	0.0	0.0
72.5°	1447.4	322.1	145.5	40.7	34.9	23.3	9.7	0.0	0.0	0.0	0.0
75°	326.0	211.5	100.9	29.1	25.2	15.5	3.9	0.0	0.0	0.0	0.0
77.5°	124.2	153.3	58.2	19.4	17.5	9.7	0.0	0.0	0.0	0.0	0.0
80°	60.1	91.2	27.2	11.6	9.7	3.9	0.0	0.0	0.0	0.0	0.0
82.5°	31.0	34.9	11.6	5.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.5	17.5	5.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	5.8	1.9	1.9	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)