

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: P269805

Luminaire Tested: **GAP-AF-01-LED-U-SL4-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-01-LED-U-SL4-7027-800-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3621.7 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 44
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: 28.75 FT

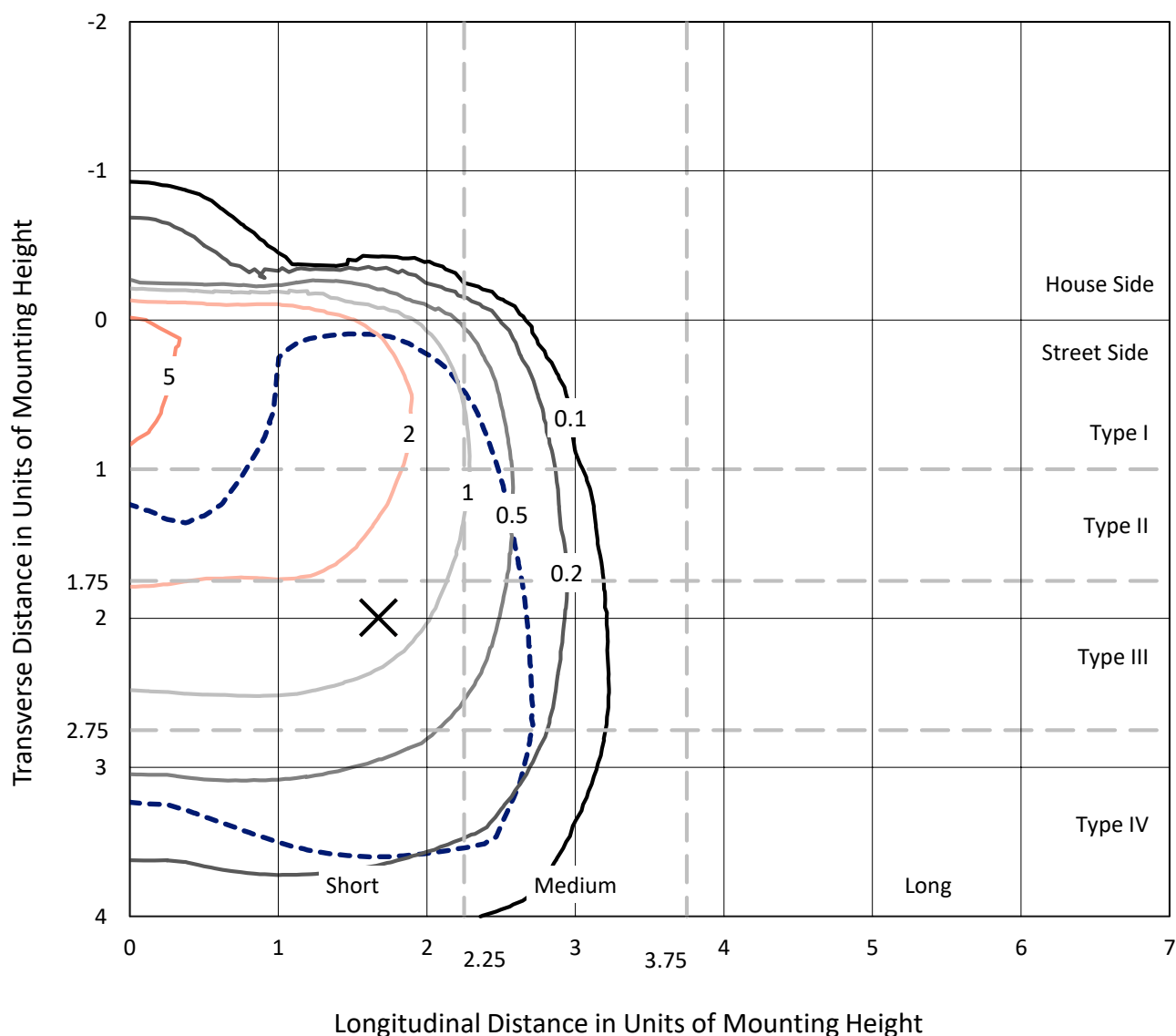


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

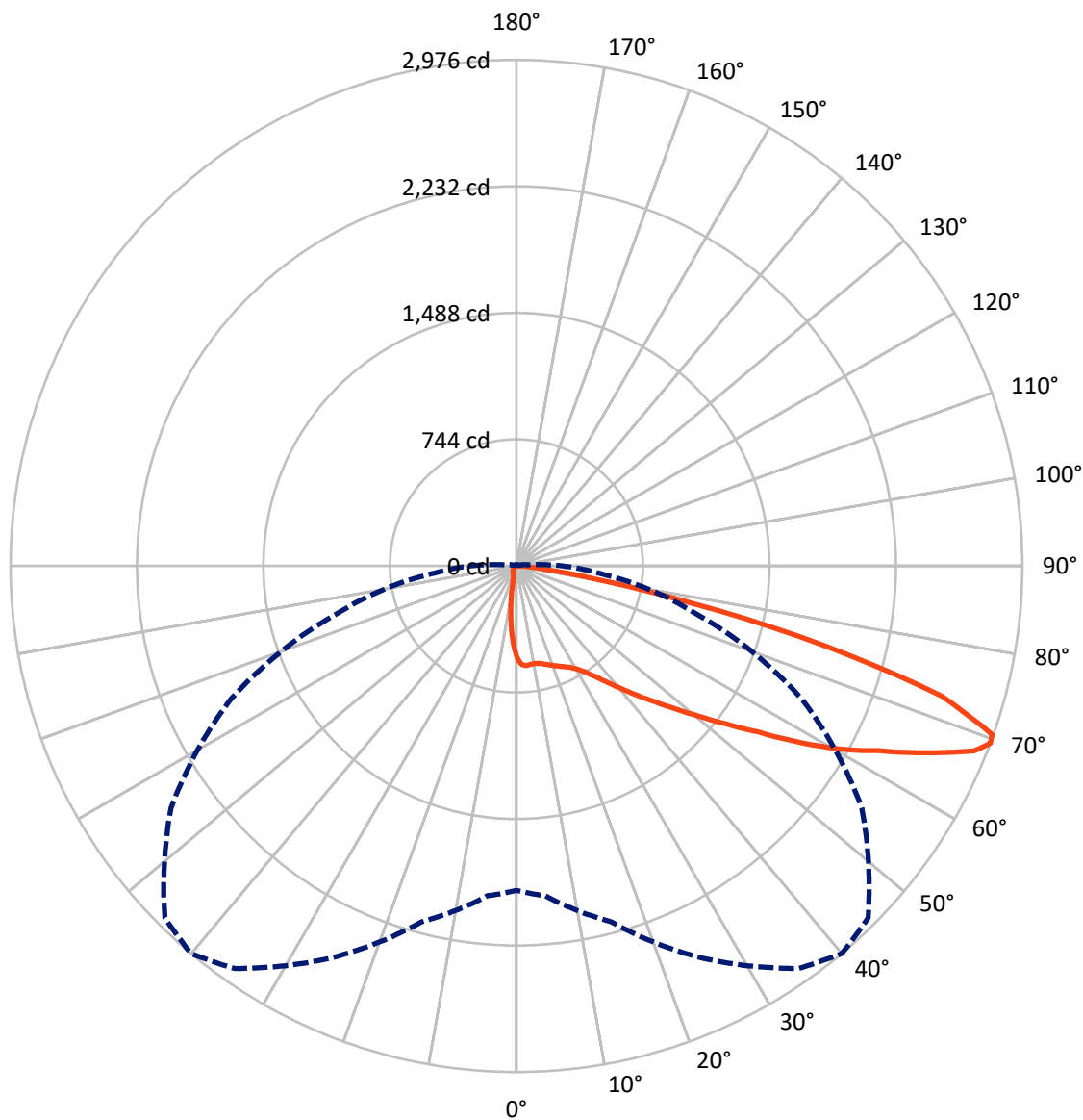


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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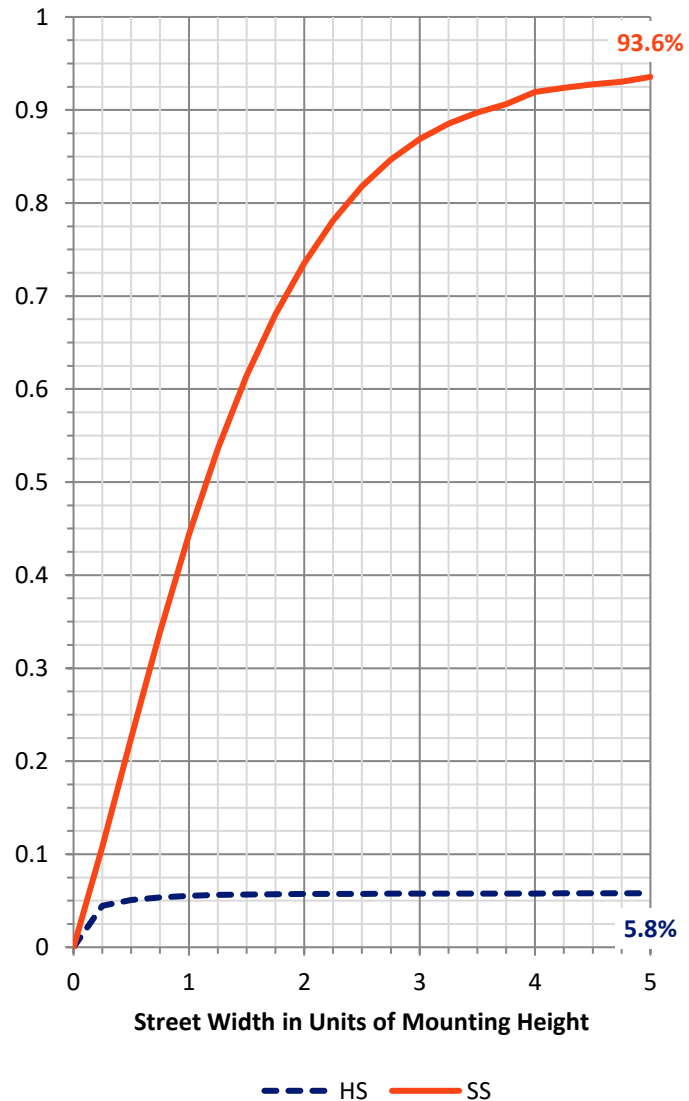
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	211.9	0.0	211.9
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	3409.8	0.0	3409.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	3621.7	0.0	3621.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.9	1.2
10°-20°	107.9	3.0
20°-30°	181.7	5.0
30°-40°	297.5	8.2
40°-50°	515.1	14.2
50°-60°	811.3	22.4
60°-70°	1059.5	29.3
70°-80°	545.7	15.1
80°-90°	59.0	1.6
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°	3621.7	100.0
0°-180°	3621.7	100.0



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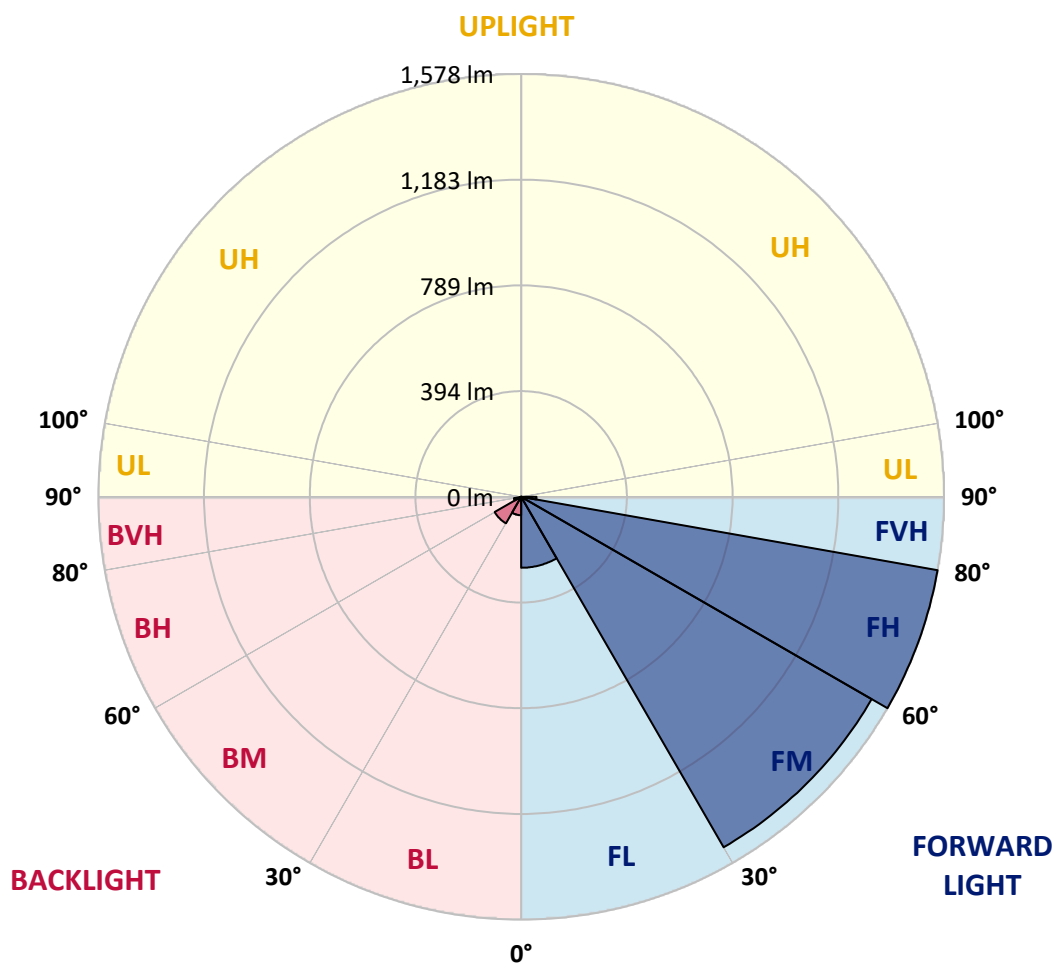
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	264.8	7.3			
FM	(30°-60°)	1510.0	41.7			
FH	(60°-80°)	1577.7	43.6			G1/1800
FVH	(80°-90°)	57.2	1.6			G1/100
BL	(0°-30°)	68.6	1.9	B0/110		
BM	(30°-60°)	113.9	3.1	B0/220		
BH	(60°-80°)	27.5	0.8	B0/110		G0/110
BVH	(80°-90°)	1.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0
2.5°	594.0	590.8	589.0	586.4	583.1	580.3	579.2	571.3	563.7	553.4	541.5
5°	605.1	604.0	600.5	597.2	593.3	589.0	586.6	577.2	566.3	551.2	530.4
7.5°	606.1	604.9	600.5	595.8	590.5	585.2	581.3	571.7	561.8	546.4	521.2
10°	604.5	602.9	599.7	594.6	587.9	582.9	578.8	569.7	561.4	547.5	519.5
12.5°	602.6	601.1	599.4	597.0	591.2	587.6	584.2	575.5	568.1	556.4	525.8
15°	604.5	603.7	605.4	604.3	601.1	598.0	594.6	586.9	579.9	570.2	537.2
17.5°	612.6	612.6	618.0	618.8	615.7	611.3	606.4	598.6	592.8	584.6	550.8
20°	631.9	631.1	638.1	639.5	632.0	625.4	618.0	608.6	604.0	598.9	564.1
22.5°	664.8	661.8	666.0	664.7	650.2	639.9	630.8	619.1	616.7	614.4	579.0
25°	707.8	706.0	708.9	696.0	670.7	656.7	645.9	632.8	632.8	635.1	595.8
27.5°	770.0	763.6	754.0	731.7	693.5	675.6	663.9	650.0	653.6	662.5	618.0
30°	833.8	826.7	804.9	770.4	721.2	702.6	689.0	674.3	682.9	699.2	647.8
32.5°	896.8	888.9	858.1	814.5	761.3	742.4	729.3	713.2	727.5	754.8	691.3
35°	957.9	950.6	915.2	863.8	814.3	798.8	786.6	772.6	791.1	829.0	752.8
37.5°	1026.4	1018.6	975.3	919.7	878.7	867.5	858.6	844.6	876.9	932.6	838.4
40°	1110.7	1097.5	1039.1	983.6	953.3	947.9	941.9	939.8	990.1	1067.0	952.5
42.5°	1207.2	1185.7	1106.0	1051.1	1035.1	1039.1	1037.5	1046.2	1131.8	1234.5	1091.3
45°	1303.8	1276.0	1180.3	1123.2	1125.2	1139.0	1147.2	1181.8	1309.2	1426.2	1240.6
47.5°	1385.7	1358.3	1251.6	1200.9	1226.8	1253.6	1276.4	1341.8	1491.5	1615.2	1356.8
50°	1455.9	1429.9	1327.2	1286.6	1344.8	1387.9	1424.9	1521.8	1687.7	1758.9	1438.4
52.5°	1513.1	1495.9	1405.8	1384.6	1479.5	1542.7	1596.9	1713.0	1861.5	1875.8	1501.6
55°	1569.0	1556.7	1490.1	1501.2	1637.7	1723.8	1792.5	1915.8	2011.1	1973.1	1562.5
57.5°	1633.2	1622.0	1586.1	1649.2	1845.7	1954.0	2029.0	2095.7	2142.8	2072.7	1619.9
60°	1698.8	1692.2	1693.1	1813.4	2084.6	2188.5	2230.0	2247.2	2272.2	2166.5	1623.1
62.5°	1761.2	1773.6	1815.4	1996.3	2313.3	2393.2	2414.0	2431.1	2401.7	2181.4	1499.5
65°	1867.0	1887.2	1987.1	2240.9	2564.9	2650.3	2671.9	2613.3	2422.2	1989.0	1219.7
67.5°	1918.8	1955.5	2133.6	2469.0	2809.0	2903.9	2895.9	2625.2	2173.7	1516.8	782.8
69°	1908.1	1947.0	2167.4	2538.8	2889.9	2976.1	2925.4	2480.2	1851.8	1098.7	480.6
70°	1865.4	1904.9	2150.0	2536.3	2900.4	2968.4	2870.7	2301.1	1565.7	803.4	300.6
72.5°	1557.8	1591.7	1908.7	2292.5	2671.9	2616.5	2401.4	1594.2	762.9	218.7	67.7
75°	958.9	977.8	1369.6	1727.0	2018.0	1875.8	1600.1	793.2	227.5	61.9	37.5
77.5°	506.6	515.2	749.7	1018.0	1279.2	1058.5	820.1	309.3	104.7	38.7	27.2
80°	299.4	306.0	403.8	465.4	553.5	462.4	327.9	189.9	75.0	24.3	24.2
82.5°	171.3	175.4	292.8	258.7	218.2	186.3	163.2	180.0	45.0	16.3	25.1
85°	62.9	63.8	164.7	196.8	129.7	77.2	81.0	149.2	12.0	10.3	19.7
87.5°	29.4	28.7	84.7	120.6	75.8	49.0	63.2	32.8	4.8	6.6	5.4
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°	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0	541.0
2.5°	534.6	526.6	512.3	497.3	482.2	470.6	459.2	450.1	447.0	441.4	442.0
5°	518.2	503.6	473.3	442.8	410.9	384.6	359.9	339.7	330.0	320.2	320.2
7.5°	503.9	482.7	435.5	385.6	334.1	290.8	251.7	222.5	206.3	193.3	193.1
10°	498.6	469.8	403.8	332.5	260.6	201.6	155.1	125.5	110.1	100.3	99.8
12.5°	501.1	465.2	379.4	283.2	193.1	129.5	89.9	70.6	64.3	61.3	61.3
15°	507.9	464.0	355.1	235.1	136.5	81.0	59.6	54.5	54.1	54.1	54.1
17.5°	516.3	464.3	330.0	188.5	93.0	58.0	51.6	50.8	51.4	51.4	51.4
20°	524.9	464.6	303.1	145.0	65.5	50.5	48.5	48.2	48.7	48.7	49.0
22.5°	535.5	465.6	276.1	108.4	54.1	47.6	46.2	46.2	46.4	46.4	46.2
25°	547.5	467.7	248.1	80.4	49.3	45.8	44.3	44.1	44.3	44.1	43.9
27.5°	562.7	470.8	216.9	62.9	47.3	43.7	42.7	42.7	42.5	42.3	42.0
30°	581.7	474.2	181.7	53.4	45.0	42.0	41.0	40.8	40.6	40.2	40.2
32.5°	610.5	481.9	147.1	48.5	42.7	39.6	38.7	38.7	38.4	38.0	37.6
35°	655.0	496.8	116.1	45.5	40.2	37.1	36.0	36.0	35.6	35.4	35.2
37.5°	716.4	519.3	90.1	42.7	37.5	34.2	33.1	33.0	32.6	32.1	31.9
40°	798.1	547.3	71.0	40.2	34.9	31.5	30.6	30.3	29.4	28.7	28.7
42.5°	900.7	579.2	57.5	37.3	31.9	28.8	28.2	27.6	26.1	25.4	25.2
45°	1008.1	608.0	48.7	34.0	28.8	26.3	26.0	24.9	22.8	22.2	22.2
47.5°	1085.4	614.6	42.8	31.0	26.1	23.4	23.3	21.3	19.7	19.1	19.0
50°	1133.8	601.4	38.2	28.0	23.4	20.9	20.2	17.8	16.8	16.3	16.2
52.5°	1166.3	578.0	34.2	25.4	21.1	18.5	17.1	15.4	14.5	14.1	14.1
55°	1192.3	544.7	30.5	23.0	19.1	16.6	14.5	13.1	12.2	11.9	11.9
57.5°	1199.6	499.6	26.5	21.1	17.2	14.6	12.2	11.4	10.3	10.2	10.2
60°	1146.4	418.4	23.4	18.8	15.5	12.8	10.8	9.7	8.7	8.4	8.2
62.5°	1006.1	323.7	20.8	16.6	13.6	11.0	9.3	7.9	7.0	7.0	7.0
65°	767.4	217.1	18.1	14.5	11.9	9.3	7.9	6.5	6.1	6.1	6.3
67.5°	459.5	118.1	15.5	12.2	10.2	7.7	6.6	5.6	5.4	5.6	5.6
69°	269.2	69.3	14.1	11.0	8.9	6.8	5.7	5.0	5.4	5.6	5.6
70°	166.1	46.8	12.9	9.9	7.9	6.3	5.4	4.8	5.2	5.4	5.4
72.5°	46.4	24.2	10.3	7.7	6.5	5.2	4.3	4.3	5.0	5.2	5.2
75°	30.3	17.8	7.9	5.7	5.0	4.1	3.7	4.1	4.8	5.0	5.0
77.5°	25.1	14.6	6.5	4.8	4.1	4.0	3.5	3.7	4.3	4.5	4.5
80°	22.8	10.3	5.2	4.3	3.7	3.5	3.2	3.1	4.0	4.1	4.1
82.5°	21.7	8.2	4.5	4.0	3.5	3.1	2.9	3.1	3.5	3.7	4.0
85°	13.6	5.4	4.1	3.7	3.1	2.9	2.9	2.9	3.2	3.5	3.5
87.5°	5.0	4.3	3.7	3.1	2.5	2.5	2.5	2.5	2.9	3.2	3.2
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)