

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: P200552

Luminaire Tested: **GAP-AF-02-LED-U-5NQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-02-LED-U-5NQ-8030
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10456 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

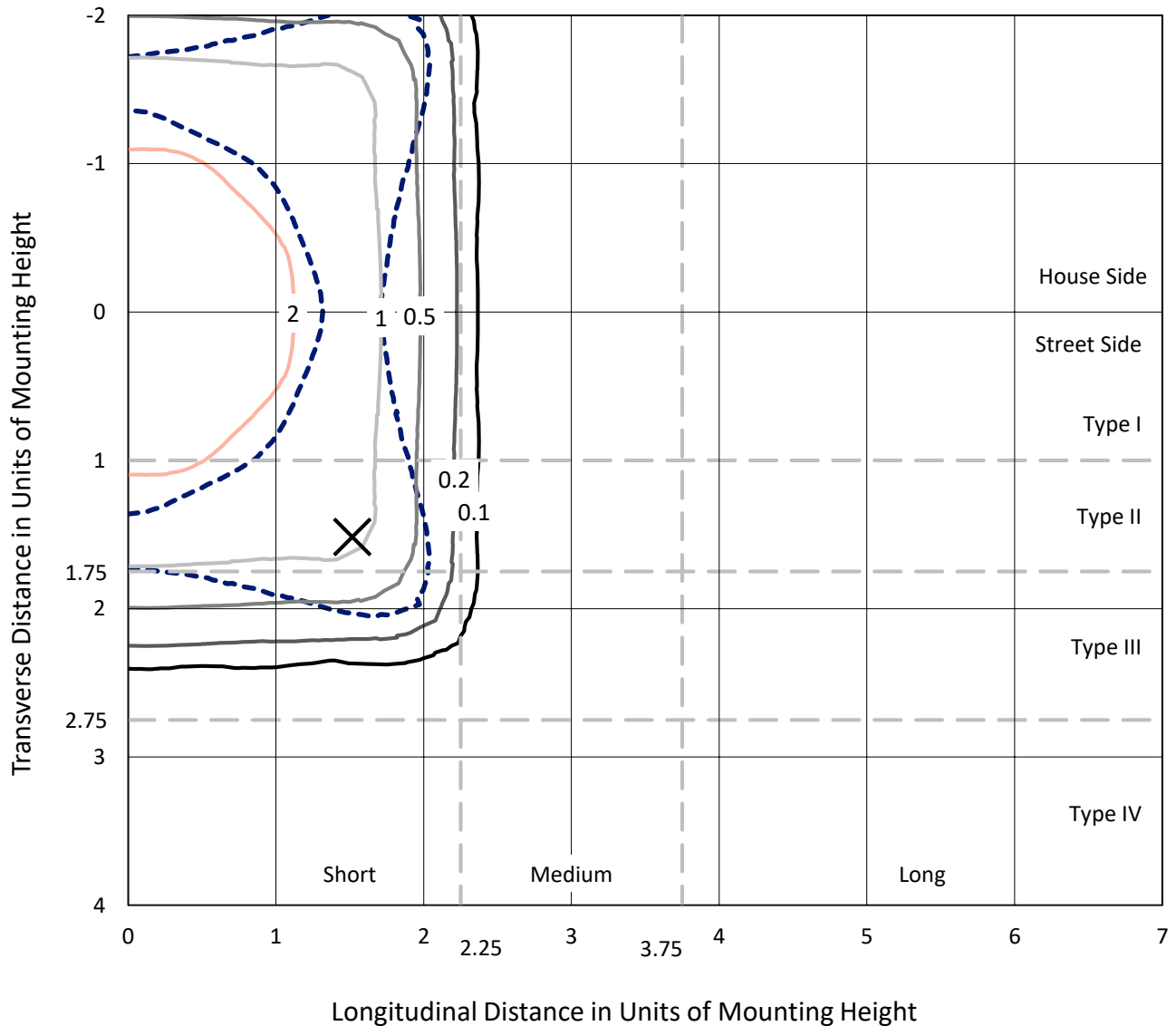
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

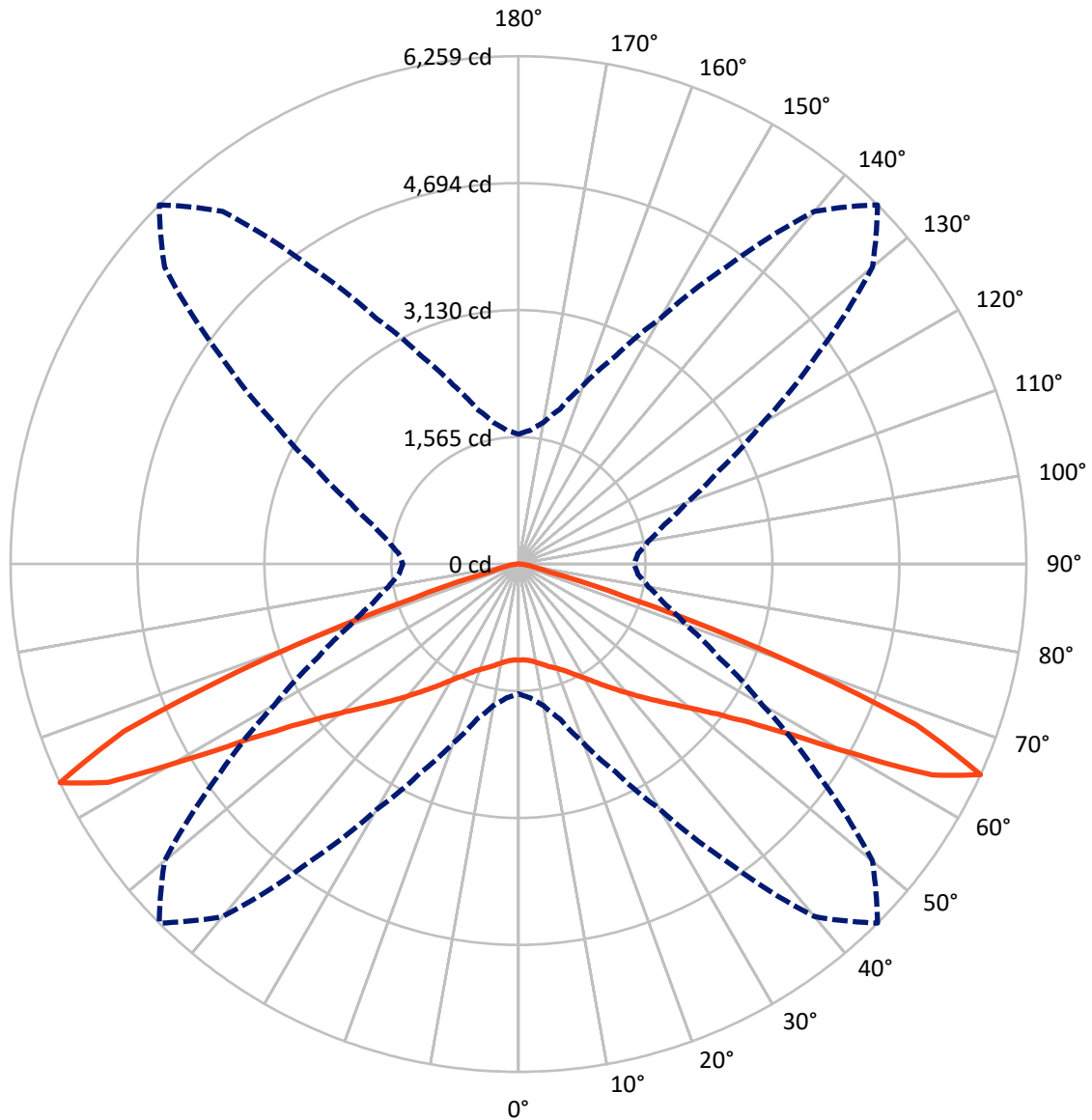
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5228.0	0.0	5228.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5228.0	0.0	5228.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10456.0	0.0	10456.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	1.1
10°-20°	369.8	3.5
20°-30°	691.5	6.6
30°-40°	1169.6	11.2
40°-50°	1912.3	18.3
50°-60°	3040.9	29.1
60°-70°	2748.8	26.3
70°-80°	347.9	3.3
80°-90°	59.8	0.6
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°	10456.0	100.0
0°-180°	10456.0	100.0



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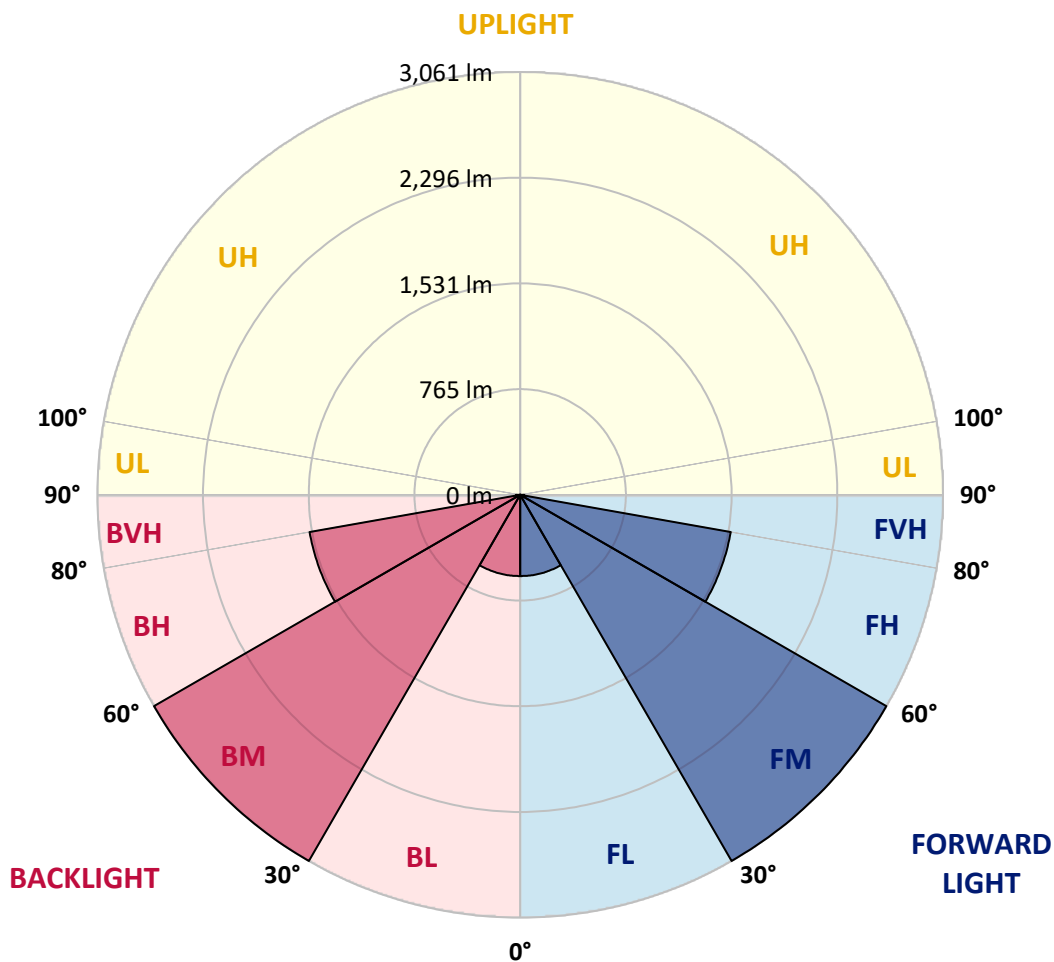
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	588.3	5.6			
FM	(30°-60°)	3061.4	29.3			
FH	(60°-80°)	1548.3	14.8			G1/1800
FVH	(80°-90°)	29.9	0.3			G1/100
BL	(0°-30°)	588.3	5.6	B2/1000		
BM	(30°-60°)	3061.4	29.3	B3/5000		
BH	(60°-80°)	1548.3	14.8	B3/2500		G1/1800
BVH	(80°-90°)	29.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1
2.5°	1184.1	1185.1	1186.0	1185.1	1186.0	1184.6	1183.6	1185.1	1183.6	1182.1	1183.1
5°	1194.4	1194.9	1194.9	1193.4	1194.9	1193.9	1192.4	1194.4	1192.9	1191.4	1192.4
7.5°	1211.5	1213.5	1212.0	1210.5	1211.5	1210.5	1209.5	1210.0	1209.5	1208.1	1208.6
10°	1234.5	1236.0	1235.0	1234.5	1235.5	1235.0	1234.0	1233.5	1234.0	1232.6	1232.6
12.5°	1262.4	1261.9	1261.5	1261.9	1263.4	1263.4	1262.9	1263.4	1264.4	1264.9	1263.9
15°	1289.9	1290.8	1290.8	1290.8	1293.8	1296.2	1297.7	1298.7	1300.6	1301.1	1299.2
17.5°	1324.1	1324.1	1323.6	1324.1	1327.1	1331.0	1332.5	1334.4	1336.4	1337.8	1335.4
20°	1362.3	1363.3	1363.3	1364.3	1368.2	1372.6	1372.6	1373.6	1372.6	1373.6	1372.1
22.5°	1408.9	1411.8	1411.8	1412.3	1416.2	1421.6	1420.1	1421.6	1419.1	1421.1	1419.1
25°	1469.6	1474.0	1473.0	1473.0	1475.9	1479.4	1479.9	1482.8	1482.3	1484.8	1483.3
27.5°	1538.1	1545.0	1546.9	1546.5	1548.4	1551.8	1552.8	1556.2	1554.3	1556.2	1555.3
30°	1620.4	1623.3	1627.3	1628.7	1631.2	1634.6	1634.6	1635.1	1632.6	1635.6	1637.0
32.5°	1705.6	1711.0	1714.9	1723.7	1728.1	1730.6	1730.1	1731.1	1728.6	1732.5	1735.5
35°	1818.2	1822.2	1828.5	1835.4	1841.3	1840.8	1839.3	1839.8	1839.8	1843.2	1846.1
37.5°	1953.9	1954.9	1963.2	1973.0	1975.9	1973.0	1964.2	1962.2	1957.8	1962.2	1967.1
40°	2097.4	2100.8	2117.4	2123.8	2125.3	2119.9	2107.2	2099.8	2090.0	2095.4	2102.3
42.5°	2247.7	2254.6	2269.7	2281.0	2285.9	2282.5	2264.8	2253.6	2240.8	2243.8	2250.6
45°	2414.2	2422.5	2444.1	2454.8	2464.1	2458.8	2441.6	2424.5	2404.4	2405.9	2416.6
47.5°	2600.3	2608.6	2636.5	2654.6	2659.5	2658.6	2639.5	2615.9	2588.5	2587.5	2596.9
50°	2808.9	2817.2	2852.0	2879.9	2894.1	2892.6	2870.1	2836.8	2803.5	2804.0	2815.7
52.5°	3012.6	3022.9	3059.1	3107.1	3135.0	3155.1	3141.4	3110.1	3069.4	3070.4	3081.2
55°	3203.6	3220.7	3262.3	3327.5	3379.4	3435.7	3451.9	3450.9	3426.4	3433.2	3444.0
57.5°	3296.1	3321.6	3385.7	3488.6	3594.4	3708.9	3805.9	3878.4	3909.2	3955.8	3945.0
60°	3120.8	3161.5	3256.0	3407.3	3616.4	3855.4	4111.5	4361.7	4575.2	4736.3	4643.8
62.5°	2555.2	2608.1	2722.7	2916.6	3233.0	3615.4	4105.6	4697.2	5341.6	5730.4	5452.7
65°	1598.9	1653.7	1770.2	1977.9	2348.1	2823.6	3488.6	4469.0	5673.1	6259.3	5694.2
67.5°	623.4	653.3	716.4	849.1	1127.3	1550.4	2217.8	3330.4	4770.6	5284.3	4682.0
70°	312.4	315.4	327.1	351.6	411.3	534.3	812.9	1544.0	2735.9	3304.5	2637.5
72.5°	225.7	226.2	232.1	242.9	262.0	289.4	342.3	472.6	889.8	1359.9	833.9
75°	172.9	174.8	178.2	184.1	194.4	208.1	227.2	272.3	337.4	391.3	329.1
77.5°	133.2	137.1	139.6	144.9	151.3	160.6	166.0	183.1	213.0	224.3	220.9
80°	101.4	104.8	110.2	114.6	119.0	123.4	121.4	129.3	144.9	154.3	149.4
82.5°	64.6	68.6	84.2	88.1	90.1	93.0	89.6	90.1	97.0	102.8	97.0
85°	41.6	44.1	53.4	58.3	58.8	60.7	59.3	55.8	55.8	50.9	57.3
87.5°	19.1	19.6	24.0	28.4	29.4	26.4	26.0	25.0	20.1	19.1	20.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1
2.5°	1182.6	1183.6	1184.1	1185.6	1186.0	1186.0	1186.5	1187.5
5°	1191.9	1193.4	1193.9	1195.8	1196.3	1195.8	1196.8	1197.3
7.5°	1208.6	1211.0	1212.0	1214.0	1212.5	1214.4	1214.9	1214.9
10°	1233.1	1235.5	1236.0	1237.9	1237.0	1237.9	1237.9	1237.0
12.5°	1265.4	1265.9	1264.4	1265.9	1263.9	1264.9	1263.4	1262.4
15°	1301.1	1299.6	1296.2	1296.2	1293.3	1293.8	1293.3	1292.8
17.5°	1335.9	1332.9	1330.5	1329.5	1327.1	1326.6	1325.1	1325.1
20°	1374.1	1372.6	1371.1	1369.2	1366.7	1364.3	1363.8	1364.8
22.5°	1420.1	1419.6	1419.6	1418.6	1415.2	1412.8	1411.3	1411.3
25°	1481.8	1477.4	1477.4	1476.9	1475.4	1474.0	1471.0	1472.5
27.5°	1551.4	1548.9	1550.9	1550.4	1548.9	1548.9	1546.9	1546.9
30°	1637.0	1636.1	1639.0	1636.6	1631.7	1631.2	1629.2	1626.8
32.5°	1736.0	1735.0	1739.4	1736.5	1728.6	1724.2	1720.3	1718.3
35°	1846.1	1846.6	1852.0	1850.1	1841.3	1838.3	1831.5	1830.5
37.5°	1966.6	1974.4	1983.8	1985.7	1978.4	1976.4	1969.1	1965.1
40°	2108.1	2118.4	2132.6	2136.0	2128.2	2126.7	2116.5	2111.1
42.5°	2259.0	2276.6	2294.2	2297.2	2289.3	2281.5	2271.7	2267.8
45°	2427.4	2448.5	2471.5	2477.4	2465.6	2456.3	2443.6	2443.6
47.5°	2616.4	2642.9	2668.8	2685.0	2674.2	2664.4	2649.2	2639.5
50°	2839.7	2876.0	2909.8	2926.4	2909.3	2890.7	2864.2	2855.4
52.5°	3119.8	3159.0	3188.4	3179.6	3153.1	3127.2	3098.3	3086.5
55°	3477.3	3490.5	3490.5	3457.2	3404.4	3360.8	3315.2	3300.1
57.5°	3924.4	3873.5	3795.1	3695.7	3570.9	3462.1	3388.7	3353.9
60°	4449.9	4205.0	3928.3	3656.5	3433.2	3249.1	3139.9	3090.0
62.5°	4800.0	4159.5	3605.1	3168.8	2847.6	2625.7	2474.9	2416.2
65°	4486.1	3469.0	2726.6	2204.6	1854.5	1628.7	1479.4	1424.5
67.5°	3285.9	2173.8	1451.9	1040.6	762.5	608.2	547.0	521.5
70°	1475.0	765.4	469.1	366.3	315.9	289.9	278.6	274.7
72.5°	444.6	321.7	271.3	244.8	224.8	212.0	202.7	201.8
75°	268.4	223.3	198.3	182.7	169.9	159.6	154.7	153.3
77.5°	187.6	164.0	152.3	141.0	131.2	123.4	119.0	115.6
80°	131.7	120.5	115.1	108.7	102.3	95.0	88.6	85.7
82.5°	88.1	85.7	85.7	81.8	76.4	69.5	56.8	53.9
85°	56.8	56.3	57.3	55.8	51.9	44.6	36.7	34.8
87.5°	26.4	26.9	29.9	29.4	28.4	23.5	18.6	17.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)